

GenCore version 5.1.6  
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protein - protein search, using sw model

Run on: February 5, 2004, 15:48:05 ; Search time 21 Seconds  
(without alignments)  
1315.666 Million cell upd

'itle: US-09-989-279-229

perfect score: 3440

sequence: 1 MKLLWQVTVHHHTWNAILLP.....ISEPYIIQHTTKDKVQETQI 653

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coring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

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earched: 328717 seqs, 42310858 residues

total number of hits satisfying chosen parameters: 328717

inimum DB seq length: 0

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aximum DB seq length: 200000000
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ost-processing: Minimum Match 0%

Maximum Match 100%

Listing first 150 summaries

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3: /cgn2\_6/ptodata/1/1aa/6A\_COMB.pep.\*

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0: c9.12\_0/p1c0aaacae\_1/rae/rae/rar:rar:

**pred. No.** is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

result No.	Score	Query		DB	ID	Description
		Match	Length			
1	3440	100.0	653	4	US-09-996-243-229	Sequence 229, App
2	1865	54.2	640	4	US-09-996-243-501	Sequence 501, App
3	1003.5	29.2	302	4	US-09-482-273-105	Sequence 105, App
4	720.5	20.9	224	4	US-09-482-273-174	Sequence 174, App
5	438	12.7	1091	3	US-08-986-485-5	Sequence 5, Appli
6	427.5	12.4	1101	3	US-08-986-485-2	Sequence 2, Appli
7	405.5	11.8	708	3	US-09-131-648-2	Sequence 2, Appli
8	402.5	11.7	673	3	US-09-063-950-2	Sequence 2, Appli
9	402.5	11.7	673	4	US-09-996-243-52	Sequence 52, Appli
10	398.5	11.6	1525	3	US-09-191-647-2	Sequence 2, Appli
11	398.5	11.6	1525	3	US-09-540-245A-2	Sequence 2, Appli
12	398.5	11.6	1525	3	US-09-540-153-2	Sequence 2, Appli
13	392	11.4	1529	4	US-09-312-283C-396	Sequence 396, App
14	391.5	11.4	649	3	US-09-188-930-305	Sequence 305, App
15	391.5	11.4	649	3	US-09-312-283C-305	Sequence 305, App
16	391	11.4	1523	3	US-09-182-024A-2	Sequence 2, Appli
17	355.5	10.3	1480	3	US-09-191-647-7	Sequence 7, Appli
18	355.5	10.3	1480	3	US-09-540-245A-7	Sequence 7, Appli
19	355.5	10.3	1480	3	US-09-540-153-7	Sequence 7, Appli
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22	351	10.2	380	4	US-09-461-395-161	Sequence 161, App
23	315	9.2	605	3	US-08-063-950-5	Sequence 5, Appli
24	312.5	9.1	221	3	PCR-US91-09055-3	Sequence 3, Appli
25	312.5	9.1	221	3	US-08-986-485-7	Sequence 7, Appli
26	310	9.0	603	1	US-08-190-802A-50	Sequence 50, Appl
27	310	9.0	603	1	US-08-477-346-50	Sequence 50, Appl

101 186 5.4 359 4 US-09-842-164A-4 Sequence 4, Appli  
102 185.5 5.4 728 1 US-07-912-952-4 Sequence 4, Appli  
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135 170 4.9 1112 3 PCT-US95-10509-2 Sequence 3, Appli  
136 169 4.9 746 5 US-07-757-342D-3 Sequence 3, Appli  
137 168 4.8 700 3 US-09-228-986-72 Sequence 72, Appli  
138 166.5 4.8 910 4 US-09-191-647-3 Sequence 3, Appli  
139 165.5 4.8 105 3 US-09-540-245A-3 Sequence 3, Appli  
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142 164 4.8 814 1 US-08-441-104A-3 Sequence 3, Appli  
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145 163.5 4.8 814 3 US-09-191-647-9 Sequence 9, Appli  
146 162.5 4.7 735 3 US-09-540-245A-9 Sequence 9, Appli  
147 162.5 4.7 735 3 US-09-540-153-9 Sequence 9, Appli  
148 162.5 4.7 1874 4 US-09-331-403-2 Sequence 2, Appli

## ALIGNMENTS

RESULT 1  
US-09-996-243-229  
Sequence 229, Application US/09996243  
Patent No. 6478825  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnovers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gershtein, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730F1C13  
CURRENT APPLICATION NUMBER: US/09/996,243  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 4; Length 653;  
Best Local Similarity 100.0%; Pred. No. 2.1e-315;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 61 CTRRGLSEVPQGPSNTRYLNLMENNIQMIQADTFRHLHLHLVQLGKNSIRQIEVGAFN 120  
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Db 121 GLASLNTLELFDNWLTVIPSGAFYLSKLELWLRNNPIESIPSYAFNRVPSLMELDLGE 180  
Qy 181 LKCLYISBGAPEGLFNKLYNLGMCNIKDMNLTPLVGLLELMSGNHFFPIRPGSFHG 240  
Db 181 LKCLYISBGAPEGLFNKLYNLGMCNIKDMNLTPLVGLLELMSGNHFFPIRPGSFHG 240  
Qy 241 LSSLKKLWVNSQVSLIERNADGLASVLELNAHNNLSLPHDLFTPLRYLVELHLHEN 300  
Db 241 LSSLKKLWVNSQVSLIERNADGLASVLELNAHNNLSLPHDLFTPLRYLVELHLHEN 300  
Qy 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMHMRGRYLVEDQASFOCSAPFTMDAPR 360  
Db 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMHMRGRYLVEDQASFOCSAPFTMDAPR 360  
Qy 361 DLNISEGRMAELKORTPPMSSVKWLLPNGTVLSHSHRHPRISVLNDGTINFSHVLLSDTG 420  
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RESULT 2  
US-09-996-243-501  
Sequence 501, Application US/09996243  
Patent No. 6478825

GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Forg, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: KJ Javin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tunas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same

FILE REFERENCE: P2730P1C13  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: US/09/996,243  
PRIOR FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
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PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089801  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089907  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089908



PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089947  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089948  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089952  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/090246  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090252  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090254  
PRIOR FILING DATE: 1998-06-22  
PRIOR APPLICATION NUMBER: 60/090349  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090355  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090429  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090431  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090435  
PRIOR FILING DATE: 1998-06-24  
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PRIOR FILING DATE: 1998-06-24  
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PRIOR FILING DATE: 1998-06-24  
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PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090578  
PRIOR FILING DATE: 1998-06-25  
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PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090694  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090695  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090696  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090862  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match

54.2%; Score 1865; DB 4; Length 640;

Best Local Similarity 56.4%; Pred. No. 6.5e-167;  
Matches 363; Conservative 107; Mismatches 130; Indels 44; Gaps 14;

QY 22 VYLTAQVWILCAIAAASAGPQNCPSVCSQNFQSKVCTREGSLSEVPQGISNTRYLN 81  
DB 29 VLLALQLLVAGLVRA-----QTCPSVCSQNFQSKVICRKNLREVPGISTNTRLLN 82  
QY 82 LMENNIQMIQADTFRHLHLEVLQLGNSIRQIEVGAPNGLASINTLELFDNMLTVIPSG 141  
DB 83 LHENQIQUIKVNPKLRLHLEILQLSRHHIRTEIGAFNGLANLNTLELFDNMLTVIPNG 142  
QY 142 AFEYLSKLREELWLNPNPTESIPSYAFNRVPSIMKLDIGELKCKLEYISEGAFEGFLNLYL 201  
DB 143 AFVYLSKLKELWLNPNPTESIPSYAFNRVPSIMKLDIGELKCKLEYISEGAFEGFLNLYL 202  
QY 202 MLGMCNINMPNLTPVLGLELEMSGNHFPBIRPGSHGLSSLLKLVNMSQVSLIERN 261  
DB 203 NLAMCNLREIPNLTPILKLDLBSGNHLSAIRPGSQGLMHLOKLNMIOSQIQVIERNA 262  
QY 262 FDGLASLVELNLAHNLSLPHDLFTPLRYLVLELHHPNPNCCDILWLAWMLREYIPT 321  
DB 263 FDLQSLVEINLAHNLTLLPHDLFTPLHLERHLHHPNPNCCDILWLAWMLREYIPT 322  
QY 322 NSTCCGRCHAPMHMEGRYLVVDQASFOCSAPFINDAPRDLINISEGRMAELKCR-TTPMS 380  
DB 323 NTACCARCNTPPNLKGRYIGELDQNYFTCYAPVIVEPPADLNVTGMAAELKCRASLT 382  
QY 381 SVKMLLPNGTVLSHARHPRISVLNDGTLNESHVLLSDTVTTCMTNVAAGNSASAYLN 440  
DB 383 SVSWITPNTGTVHGHAYKVRIVLSDGTLNFTVQDTGHTCNVNSVGNVTASATLN 442  
QY 441 VSTABLNTSNYSFFTPTVTETTESPED---TTRKYKFPV-----TTSTGYQPAYTSTT 492  
DB 443 VTAA--TTFPSYFSTVIVETWEPQDEARTDNNVGPVVDWETNV-----TTSLT 494  
QY 493 VLIQTR-VPKQVAPATDTRDKKATSLDEVMKTKIIIGCFVATLLAAAMLIVEYKLR 551  
DB 495 P--QSTRSTKFTTIPVTDINSGL-PGIDVEMKTKIIIGCFVATLLAAAMLIVEYKMR 551  
QY 552 KEHQORSTVTAARTVEIIOVEDIDPAATSAATAAPSGVSGEGAVVLPFI-HDHIN-YNT 609  
DB 552 KQHRQNHAPTRTVEIINVDDEITGDTFM-----ESHLPMPAIEHHLNHTNS 600  
QY 610 YKPAHGAHWTENSGLNSLHPTVTITSEPIYIQTHTGKVKQETQI 653  
DB 601 YKSPENHTTIVATI-NSIH---SSVHEPLLRMSKNVQETQI 640

RESULT 3

US-09-482-273-105  
; Sequence 105, Application US/09482273  
; Patent No. 6534631  
; GENERAL INFORMATION:  
; APPLICANT: Rosen et al.  
; TITLE OF INVENTION: 71 Human Secreted Proteins  
; FILE REFERENCE: P2030P1  
; CURRENT APPLICATION NUMBER: US/09/482, 273  
; CURRENT FILING DATE: 2000-01-13  
; EARLIER APPLICATION NUMBER: PCT/US99/15849  
; EARLIER FILING DATE: 1999-07-14  
; EARLIER APPLICATION NUMBER: 60/092, 921  
; EARLIER FILING DATE: 1998-07-15  
; EARLIER APPLICATION NUMBER: 60/092, 922  
; EARLIER FILING DATE: 1998-07-15  
; EARLIER APPLICATION NUMBER: 60/092, 956  
; EARLIER FILING DATE: 1998-07-15  
; NUMBER OF SEQ ID NOS: 267  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 105  
; LENGTH: 302  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-482-273-105

[illegible]

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RESULT 4
IS-09-482-273-174
Sequence 174, Application US/09482273
Patent No. 6534631
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: 71 Human Secreted Proteins
FILE REFERENCE: P2030P1
CURRENT APPLICATION NUMBER: US/09/482,273
CURRENT FILING DATE: 2000-01-13
EARLIER APPLICATION NUMBER: PCT/US99/15849
EARLIER FILING DATE: 1998-07-14
EARLIER APPLICATION NUMBER: 60/092,921
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/092,922
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/092,956
EARLIER FILING DATE: 1998-07-15
NUMBER OF SEQ ID NOS: 267
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 174
LENGTH: 224
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: 1761

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Query Match	20.98	Score	720.5	DB	4	Length	224
Best Local Similarity	74.3	Pred.	No. 9.7e-60				
Matches	136	Conservative	19	Mismatches	25	Indels	3
Gaps							
2y	34	ATAAAGAG---	PONCPSVCSCNQSKTSKVCTRRGLSEVPQGISPNTRYLNLMENNIM	OMI	90		
db	42	AVTSRAGGSPATSCPVACSCNQASREVICTRRXLAEPASIPVNTRYLNLCENGIOVI			101		
2y	91	QADTRHLEHLEVLQGRNSIRQIEVCAFNGLASLANTLELFONMLTVTPSGAFYLSKLR			150		
db	102	RTDTFKGLRHEIILQSKNLVRKIEVGAFNGLPSLNTLELFONRLTTPVTPQAFYLSKLR			161		
2y	151	ELWLRNNPISGISPVAFNRVPSLMRLOGLBKXLEVISGAPEGLFNKLYNLMGNCNKD			210		
db	162	ELWLRNNPISGISPVAFNRVPSLRDLGLBKXLEVISGAPEGLVNLRYNLMGNCNKD			221		
2y	211	MPN	213				

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Query Match	12.7%	Score	438	DB 3	Length	1091			
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Qy	28	VMLCAATAAASAGPQ----	NCPSVCSGCSNF	FKVWCTRR	GLSEVPQGISNTRY	LNL	82		
Db	20	LMLLULLLOWPESAGAAQAP	PAPCAAACTCAG--	NSLDCSGRLATL	PDLPSPWTRSLNL	77			
Qy	83	M-----					83		
Db	78	SYNRLSEIDSAAPEDLTNLQ	EVLNSNELTAPLSGTAS	GVVSLFLQHNKILSV	DGSQL	137			
Qy	84	-----					83		
Db	138	KSYLSLEVLDSLSSNNIT	EIRSSCPNGLRIR	ELNLASNRISILES	GAFLGSRSLTLRL	197			
Qy	84	-----					119		
Db	198	SKNRITQPVKAFKLPRTQ	LDLNRIRIRIEGLT	FQGLDSLEVLQQRN	ISRLTDCAF	257			
Qy	120	NGLASLNTLELFDNNLW	ITVPSGAPEYLSKL	RELWLRRNPIS	IPS-----	YA	166		
Db	258	WETSKWVHTFYNSIV	RVNSGSLYGTALH	OLHLSNNISIR	QRDGWFCKLHELILS	317			

167 FNRVPSLMRLDLGBLKKU-----EYISGAFGLFNKLYNLGKCNKIMKDMPLTP 216  
318 FNNLTRLDESLAELSSLSILRLSHNAISHIAEGAFKGLSLRLVD----- 363  
217 LVGLLELMSGNHPEIRPGSFHGLSSLLKLVWVNSQVSLIERNAFGLASLVELMAH 276  
364 ---LDHNEISGT---IEDTSGAFTGLDKLSKLTILGNKIKSVAKAFGLSLEHNLGEN 418  
277 NLSSLPDLFTPLRYLVHLLHNPWNCDDILMLAWLR----- 316  
419 AIRSVQDFAFAKMKLYIYSSESFLCDQLKLPALMGRMLQAEVATCAHPESLKG 478  
317 ---EYITNSTC-----CGR-----CHA-----PM----- 333  
479 QSIFSVLPDSFVCDPPKQIITPETTMVVGKDIRFTCSAASSSPMTFAWKDNEV 538  
334 ---HVRG-----RYLVEVDQASFQC----- 350  
539 LANADWENFAHRAQDGEVMEYTTILHLRHVTFHGEGRYQCIIITNHPGSTYSHKARLVN 598  
351 SAPFMDAPROLNISSEGRMAELKCRTP--PMSSVKLLPNGTVLSHASRHPRIISVLNDGT 408  
599 VLPSPFKIPHDIAITGTATLECAATGHPNPQIAWKQDGTDP--AARERRMHVMPD 657  
409 LNF-SHVLSSDGVVTCMVTVNAGKSNASAVLNSTAEINTSNYSF---FTTVTVETEI 464  
658 VPFTIDVKIDMGVVSCTAONSAGSVSANATLV-----LETPLAVPLEDRVVTVGETVA 713  
465 SPEDTRKYKVPVTTSTGVQP-----AYTSTTVLIQT 497  
714 FQCKATGSPTRITWLKGRPLSLTERHHTPGNQLLVQVNMIDDAGRYTCENSLFGT 773  
498 TRVPQVAVPATDITDKMCTSLDEVKTKIIGCFVAVTLLAAAGLIVFYKLRHQOR 557  
774 ERAHSQSLTPTGCKDGTGVG-----IFTAVCSIVLTSL--VWVCIIYQTKSBEY 827  
558 STVTAARTVEIIVQBEDIPAAATSAATAAPSGVSGEAVLPTTHDHINVTYKPAHGAH 617  
828 SVTNTDETI---VPPDVPSYSSQGT-----LSDRQETVVRTEGGH-QANGHIESNGVC 877  
618 WTENSLGNSLHETVTTISEPIYIQTHTKD--KVQE 650  
878 LRDPSPFPEDIHSTTCROPKLCVGTREPWKYTE 912

RESULT 6

S-08-986-485-2  
Sequence 2, Application US/08986485  
Patent No. 6046030  
GENERAL INFORMATION:  
APPLICANT: WU, SHUTJIAN  
APPLICANT: SWEET, RAYMOND  
APPLICANT: TRUNEH, ALEMSEGED  
TITLE OF INVENTION: A HUMAN LIG-1 HOMOLOG (HLIG-1)  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: RATHNER & PRESTIA  
STREET: P.O. BOX 980  
CITY: VALLEY FORGE  
STATE: PA  
COUNTRY: USA  
ZIP: 19482  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/986,485  
FILING DATE: 08-DEC-1997  
CLASSIFICATION:  
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/059,448  
FILING DATE: 22-SEP-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: PRESTIA, PAUL F  
REGISTRATION NUMBER: 23,031  
REFERENCE/DOCKET NUMBER: GH-70264  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 610-407-0700  
TELEFAX: 610-407-0701  
TELEX: 946169  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1101 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-986-485-2  
Query Match 12.4%; Score 427.5; DB 3; Length 1101;  
Best Local Similarity 21.6%; Pred. No. 5.5e-31;  
Matches 194; Conservative 98; Mismatches 274; Indels 333; Gaps 28;  
QY 28 VWILCAAI-AAAASAGRO-NCPSVCSQSNQ-----FSKVWCTRRGLSEVPQGIPISTRYL 80  
DB 21 LMLLLRLLEFVTAAGRAPACAACTCAGDPCTCAGSDLCGGRGLAALPGDLFSWTRSL 80  
QY 81 NLWENNIMQIQADTFRHL-----HH----- 100  
DB 81 NLSYNKLAIEIDPAGFEDLPNLQEVYLNHNTAVASLGAGSSQVVALFLQOQNRSLDGS 140  
QY 101 -----LEVQLGRNSTROI-----EVCAGFLA-SLNTL 128  
DB 141 QLKAVLSLEVDLNNITTEVNTVPHGPPIKEINLAGNRIGTLELGAFLGSLSSLT 200  
QY 129 ELFDNWLTVIPSGAFYLSKLFELMLRNPNIESIPYAFNRVPSL--NRDLGELK-- 183  
DB 201 RLSKREITOLPVRK-LFRLTQDLNENRIRLIGLTFQGLNSLEVLKLRNNISKLT 259  
QY 184 -----LEY-----ISEGAFGLFNKLYNLGKCNK----- 209  
DB 260 GAFWGLSKMHLVLEYDSLVYVNSGLYGLTALHQLHLNNSNIAIRHKRGSFOCKLHEL 319  
QY 210 -----DMPNLTPLVGLBLEMSGNHPEIRPGSFHGLSSLK----- 245  
DB 320 VLSFNNLTRLDESLAELSSLSVLRLSHNSISHIABGAFKGLSLRLVLDLHNEISGTIE 379  
QY 246 -----KLWVNSQVSLIERNAFDGLASLVELNLAHNLSSLPHDLFTPLRY 291  
DB 380 DTSGAFSGLEFGHSLKLTLPNGIKIKSVAKRAFSGLEHNLGNAIRSVQDFAVKMK 439  
QY 292 LVLEHLHNPWNCDDILMLAWLRREYIPTNSTCCGR-----CHAPMHMRGRYLVE 342  
DB 440 LKELHTSSDSFLDCOLKWLPPWL-----IGRLMQAFVATCAHPESLKGQSIFS 489  
QY 343 VDOASFQCS----- 351  
DB 490 VPESFVCDPFLKQIITPETTMVVGKDIRFTCSAASSSPMTFAWKDNEVLTNAD 549  
QY 352 -----APPI 355  
DB 550 MENFVHVHQAQGEVMEYTTILHLRQVTFHGEGRYQCIVTNHPGSTYSHKARLVNVLSP 609  
QY 356 MDAPRLNISEGRMAELKCRTP--PMSSVKLLPNGTVLSHASRHPRIISVLNDGTINF-S 412  
DB 610 TKTPHDTITTTTVALECAATGHPNPQIAWKQDGTDP--AARERRMHVMPDDVFPFIT 668  
QY 413 HVLLSGTVVTCMVTVNAGKSNASAVLNSTAEINTSNYSFPTTIVTETTESPDT--- 469  
DB 669 DVKIDAGVYSCTAONSAGSVSANATLV-----LETPS-----LVVPLEDRVVSVGETVAL 720  
QY 470 -----TRKYKEVPTTSTGVQPAVTTSTVLI---QTRVPEKQVAVPATDITDKQTSLODEV 522

b 721 QKATGPPPPRIITWFKGDRPLSLTERHLLTPDNQLLVQVVAEDAGRYTCENSLTGT 780  
y 523 MKTKIIII---OC-----FVAVTLAAAMLIVFYKLRKHQORSTVTAAR 564  
b 781 RAHSQSLVLPAAAGCKDGTGTGIFTIAVSSIVLTSLVWVCIITQYTKKSEBYSVTNDE 840  
y 565 TVEIIQVDEIPAAATSAATAA---PSGVSSEGAVALPTIHDHINTYKPAHGAHWTE 620  
b 841 TV-----VPPDVPSVLSQGLSDROETVVRTEG---POANGHIESNGVCPDRASHFPE 892

## RESULT 7

US-09-131-648-2  
Sequence 2, Application US/09131648  
Patent No. 6168920  
GENERAL INFORMATION:  
APPLICANT: Hillman, Jennifer L.  
APPLICANT: Yue, Henry  
APPLICANT: Corley, Neil C.  
APPLICANT: Guegler, Karl J.  
APPLICANT: Patterson, Chandra  
TITLE OF INVENTION: EXTRACELLULAR ADHESIVE PROTEINS  
FILE REFERENCE: PP-0576 US  
CURRENT APPLICATION NUMBER: US/09/131.648  
CURRENT FILING DATE: 1998-08-10  
NUMBER OF SEQ ID NOS: 5  
SOFTWARE: PERL Program  
SEQ ID NO 2  
LENGTH: 708  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: 2687731

## US-09-131-648-2

Query Match 11.8%; Score 405.5; DB 3; Length 708;  
Best Local Similarity 25.4%; Pred. No. 3.2e-29;  
Matches 145; Conservative 85; Mismatches 226; Indels 115; Gaps 16;

y 45 NCPGVCSCS-----NQFSKVVCTRGSLSEVPOGIPSNTRYNLMMNNIOMIQAD 93  
b 28 DCPRLCTCEIRPWPTRPSIYMEASTVDCNDGLLTPARLPANTQILLQTNNAIKIYS 87  
y 94 TFRHLHLVLQGRNSIRQIEVGAFNGLASLNTLELFDNWLTVIPSGAFYLSKLRML 153  
b 88 TDFPV-NLTGLDLSQNNLSVTNNVKKMPQLLSVLEENKLTPELKEKLSLSNLOELY 146  
y 154 LRNNPIESIPSAFNRVPSLRMLDLGELKLEYISEGAFGLNKLNLG---MCNIKD 210  
b 147 INHLLSTISPCAFIGLHNLRLHNS-NRLQMINSKWFDALPNLEILMIGENPIIRKD 205  
y 211 MP-----NLT-----PLVGLLELE-----224  
b 206 MNFKPLINRLSVIAGINLITEIPONALVGLNLESISFYDNRLIKVPHVALQKVNLKFL 265  
y 225 -MSGNHFFEIRPGSFHGLSLKKLWV-----MNSQVSLI 257  
b 266 DLNRKPNIRIRGDFSNMLHLKELGNNMPELLISIDSLAVDNLPLDKIEATNPRLSYI 325  
y 258 EBNAPDGLASVELNLAHNNLSLPHDLFTPLRYLVELHLHNPWNCDDILWL---AWW 314  
b 326 HPNAPFRLPKLESMLNSALSALVHGHTIESLPNKEISITHSNPIRCDVCIRWNNMKN 385  
y 315 LREYIPTNSTCCGRCHAPMNRGYLVEVD-QASFOCSAPPIM--DAPRLNISEGRMAE 371  
b 386 IRFMEPDSLFCVD-----PPEFOGQNVQRVHPRDMMWELCLPIIAEPSPNINVEAGSYVS 441  
y 372 LKCR--TFPMSSVKWLLPNGTVLSHASHRPRISVLNDGTLPNFSHVLLSDTGVTYCMVTN 429  
b 442 FICRATAPQPEIYIWTSGQKLPLNTLTDKPYVHSEGLTDINGVTPKEGLYTCIATNL 501  
y 430 AGNSNASHYLVNVAELNNTSNSEFTTIVTTEISSEDITRYKY---PVPTSTGTGQPA 486

Db 502 VGADLKSVMIKVDGSPPDNNGS-----LNKIRDIQANSVLVSWKASSKILKSSVKWTAF 557  
Qy 487 YTTSTTVLIQTTVPKQVAV-----PSTD 510  
Db 558 VKTENSAAQSAKIPSDVKVYNLTHLPSTTE 588

## RESULT 8

US-09-063-950-2  
Sequence 2, Application US/09063950C  
Patent No. 6225085  
GENERAL INFORMATION:  
APPLICANT: Holtzman, Douglas A.  
TITLE OF INVENTION: NOVEL LRSG PROTEIN AND NUCLEIC ACID MOLECULES AND USES  
TITLE OF INVENTION: THEREFOR  
FILE REFERENCE: MEI-019  
CURRENT APPLICATION NUMBER: US/09/063.950C  
CURRENT FILING DATE: 1998-04-21  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 2  
LENGTH: 673  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-063-950-2

Query Match 11.7%; Score 402.5; DB 3; Length 673;

Best Local Similarity 25.6%; Pred. No. 5.6e-29;  
Matches 174; Conservative 96; Mismatches 265; Indels 145; Gaps 26;

Qy 17 ILPPFVYLTAQWMLCAIAAASAGPNCPSVCSCSNQPSKVCTRRGLSEVPOGIPSN 76  
Db 7 LLLPILLL-----LALPGVQGPCSCQCS-QPTVFCTARQGTTPYPRDVPD 53  
Qy 77 TRYLMNENIOMIQADTFRHLHLVLQGRNSIRQIEVGAFNGLASLNTLELFDNWL 136  
Db 54 TVGLYVFEENGITMLDAGSFAGLQGLDLSQNIASLPSGVFQPLANLNLDTANRLH 113  
Qy 137 VIPS-----GAPEVLSKLRMLNANNPTIESIPSAFNRVPS 172  
Db 114 BITNETFRGLRRLERLYLGNRRIRHIQPGAFDILRLLEKLQDNELRALPPL---RLPR 170  
Qy 173 LMRDLGELKLEYISGAFGLNFKYLNLMGNMKNMKN---LTPVLVGLLEEMSGNH 230  
Db 171 LLLDLSSH-NSLLALEPGILD-TANVEALRLAGLQQLDEGLFSRLNHLDLVDSDNL 228  
Qy 231 PEIRPGSFHGLSLKKLWV-NQSVLSIERNAPDGLASLVELNLAHNNLSLPHD---LF 286  
Db 229 ERV-PPVIRGLRGLTRLELAGNTRIAQLRPEDLAGLAALQELVDVNSLQALPGL 287  
Qy 287 TPLRYLVELHLHNPWNCDDILMLAWLRE-VIPTNSTCCGRCHAPMNRGYLVEVDQ 345  
Db 288 PRLRLAAA---RNPFCVCPLSMFGPVRHESHVTLASPEETRCHFPKKNAGRLLELDY 344  
Qy 346 ASFOCSA-----PFTMDAPRLNISEGRMA-----ELKCTPPMSSVKWLLP 389  
Db 345 ADFGCPATTTATVPTTRPVVRBPTALSSSLAPTATPATEAPSPPTAPTPTGVP--- 402  
Qy 330 TVLSHASHRPRISVLNDGT--LNFESHVLL-----SDTGVY-----422  
Db 403 ---VPOQDCPSTCLNGTCHLGRHHLACLCEGFTGLYCESQMGQGTSPSTPTTPRP 460  
Qy 423 ---TCMVTVNAGNS---NASAYLVNSTABNTSNVSFFT-----TVTVETTESPED 468  
Db 461 PRSLTGLIEPVSPTSLVQLQYSGSSVQLRSRLITRYNLSGDFKELVTLRLPASLAEY 520  
Qy 469 TTRKYPVPTTSTGTQYATTTSTTVLQTTTRVPR-QVAVPATDTDDMQTSLDEVNKT 527  
Db 521 TVTQLRPNATTVSCVMP-----LGPGRVPEGEBCGEANTPPAVHSHAPVTCARE 571  
Qy 528 -----IITGCPVAVTLAAAMLIIVFYKLRKHQORSTVTAAR-----TVEIIQ 570  
Db 572 GNLPLLIAPALAAVLLAALAAVGAAYCVR--GRAMAAQAQKQGVGPGAGPLEG 628

571 VD-EDIPAATSAATAAPSG 589  
629 VLEPGPKATGCGEALPSG 648

SUIT 9

-09-996-243-52  
Sequence 52, Application US/09996243  
Patent No. 6478825

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerstein, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhangs, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C13  
CURRENT APPLICATION NUMBER: US/09/996,243  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/066311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087609  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087759  
PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087827  
PRIOR FILING DATE: 1998-06-03  
PRIOR APPLICATION NUMBER: 60/088021  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088025  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088026

PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088028  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088029  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088030  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088033  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088326  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088167  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088202  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088212  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088217  
PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088655  
PRIOR FILING DATE: 1998-06-09  
PRIOR APPLICATION NUMBER: 60/088734  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088738  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088742  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088810  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088824  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088826  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088858  
PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/088861  
PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/088876  
PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/089105  
PRIOR FILING DATE: 1998-06-12  
PRIOR APPLICATION NUMBER: 60/089440  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089512  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089514  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089532  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089538  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089598  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089599  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089600  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089653  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089801  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089907  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089908  
PRIOR FILING DATE: 1998-06-18  
PRIOR APPLICATION NUMBER: 60/089947  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089948  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/089952  
PRIOR FILING DATE: 1998-06-19  
PRIOR APPLICATION NUMBER: 60/090246  
PRIOR FILING DATE: 1998-06-22

[illegible]

Query Match 11.6%; Score 398.5; DB 3; Length 1525;  
Best Local Similarity 24.7%; Pred. No. 5.1e-28;  
Matches 145; Conservative 56; Mismatches 178; Indels 207; Gaps 15  
35 IAAAAAGPQNCPSVCSCNPFKVVCTRGLSSEVPQGPSNTRYLNLMNNIQLQADT 94

```

b 17 LAFLNKVAPQACQSCSG--STVDCHGLALRSVRPIPRNTERDLNGNNITRTKTD 74
Y 95 FRHLHLEVLQGRNSIROIEVGAENGLASNTLSELFDNWLTVIPSGAFYLSKLRLEWL 154
b 75 FAGLRHLRVLQWENKISTIERGAFQDLKELERLNRNHLQFPFELLFLGTAKLYRLDL 134
Y 155 RNNPIBSISYAFNRVPSLMRLDLGELKKLEYISGAFEGLENKYLNLGMCNI----- 208
b 135 SENQIQAIKPKAFRGAVDIKNLQL-DYNOISICEDGAFRALDLVLTLNNNNITRLSVA 193
Y 209 --KDMPNL-----TPLVGL----- 220
b 194 SFNHPKLTFRHLHNNLYCDCHLAWLSDWLRKRPVRGLYTCQMGPSHLRGHNVAEQVR 253
Y 221 -----BELEMSG 227
b 254 EFVCSDEEBGHOSFMAPSCSVLHCPAACTCSNNIVDCRCKGLTEIPTNLPEITIRLEQ 313
Y 228 NHPPETRPGSFHGLSSLLKLMWNSQVSLIERNAPDGLASIVELNLAHNNLSSLP----- 282
b 314 NTIKVIPPGAFSPYKLRIDLSNQISLAPDAFQGLRSLNSLVLYGNKITEPKSLFE 373
Y 283 -----HDL-----FTPLRYLVELHLHH 299
b 374 GLFSLQLLLNANKINCLRVDAFQDLHNLNLSLYDNKLOTIAKGFSPFLRAIQTMHLAQ 433
Y 300 NPWNCDCDILWLAWLREYIPTN--STCCGRCHAPMHRGRVLYVEVDQASFOCS----- 351
b 434 NPPICDCHLKWLA-----DYLHNPITSGARCTSPRLANKRIGQIKSKKFCSTEDYR 489
Y 352 APFIMDAPRLMISGRMAELKCRTP-----PMSSVKWLLPNG--TV 391
b 490 SKLSGDCFADLACPS-----KRCBGTTVDCSNQKLNKIPEHIQYTAELRLNNEFTV 543
Y 392 LSHASRHRISVLNDGTLNFSHVLLSD-----TGYYTCWNTN 428
b 544 LEATGIFKLPQLR--KINFNNKITDIBEGAFGASGVNEILLTS 587

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RESULT 11
S-09-540-245A-2
Sequence 2, Application US/09540245A
Patent No. 6270984
GENERAL INFORMATION:
APPLICANT: Goodman, Corey
APPLICANT: Kid, Thomas
APPLICANT: Brose, Katja
APPLICANT: Tessier-Lavigne, Marc
TITLE OF INVENTION: Modulating Robo: Ligand Interactions
FILE REFERENCE: B98-031-3
CURRENT APPLICATION NUMBER: US/09/540,245A
PRIOR FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: 60/065,544
PRIOR FILING DATE: 1997-11-14
PRIOR APPLICATION NUMBER: 60/081,057
PRIOR FILING DATE: 1998-04-07
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 1525
TYPE: PRT
ORGANISM: human
S-09-540-245A-2

```

```

Query Match 11.6%; Score 398.5; DB 3; Length 1525;
Best Local Similarity 24.7%; Pred. No. 5.1e-28;
Matches 145; Conservative 56; Mismatches 178; Indels 207; Gaps 15;
Y 35 IAAASAGPQNCPSVCSNQSFKVCTRGISEVPOGIPSNTRYLNLMENNIOIADT 94
b 17 LAFLNKVAPQACQSCSG--STVDCHGLALRSVRPIPRNTERDLNGNNITRTKTD 74

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QY 95 FRHLHLEVLQGRNSIROIEVGAENGLASNTLSELFDNWLTVIPSGAFYLSKLRLEWL 154
DB 75 FAGLRHLRVLQWENKISTIERGAFQDLKELERLNRNHLQFPFELLFLGTAKLYRLDL 134
QY 155 RNNPIBSISYAFNRVPSLMRLDLGELKKLEYISGAFEGLENKYLNLGMCNI----- 208
DB 135 SENQIQAIKPKAFRGAVDIKNLQL-DYNOISICEDGAFRALDLVLTLNNNNITRLSVA 193
QY 209 --KDMPNL-----TPLVGL----- 220
DB 194 SFNHPKLTFRHLHNNLYCDCHLAWLSDWLRKRPVRGLYTCQMGPSHLRGHNVAEQVR 253
QY 221 -----BELEMSG 227
DB 254 EFVCSDEEBGHOSFMAPSCSVLHCPAACTCSNNIVDCRCKGLTEIPTNLPEITIRLEQ 313
QY 228 NHPPETRPGSFHGLSSLLKLMWNSQVSLIERNAPDGLASIVELNLAHNNLSSLP----- 282
DB 314 NTIKVIPPGAFSPYKLRIDLSNQISLAPDAFQGLRSLNSLVLYGNKITEPKSLFE 373
QY 283 -----HDL-----FTPLRYLVELHLHH 299
DB 374 GLFSLQLLLNANKINCLRVDAFQDLHNLNLSLYDNKLOTIAKGFSPFLRAIQTMHLAQ 433
QY 300 NPWNCDCDILWLAWLREYIPTN--STCCGRCHAPMHRGRVLYVEVDQASFOCS----- 351
DB 434 NPPICDCHLKWLA-----DYLHNPITSGARCTSPRLANKRIGQIKSKKFCSTEDYR 489
QY 352 APFIMDAPRLMISGRMAELKCRTP-----PMSSVKWLLPNG--TV 391
DB 490 SKLSGDCFADLACPE-----KRCBGTTVDCSNQKLNKIPEHIQYTAELRLNNEFTV 543
QY 392 LSHASRHRISVLNDGTLNFSHVLLSD-----TGYYTCWNTN 428
DB 544 LEATGIFKLPQLR--KINFNNKITDIBEGAFGASGVNEILLTS 587

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RESULT 12
US-09-540-153-2
Sequence 2, Application US/09540153
Patent No. 6270995
GENERAL INFORMATION:
APPLICANT: Goodman, Corey
APPLICANT: Kid, Thomas
APPLICANT: Brose, Katja
APPLICANT: Tessier-Lavigne, Marc
TITLE OF INVENTION: Modulating Robo: Ligand Interactions
FILE REFERENCE: B98-031-3
CURRENT APPLICATION NUMBER: US/09/540,153
CURRENT FILING DATE: 2000-03-31
PRIOR APPLICATION NUMBER: 09/191,647
PRIOR FILING DATE: 1998-11-13
PRIOR APPLICATION NUMBER: 60/081,057
PRIOR FILING DATE: 1998-04-07
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 1525
TYPE: PRT
ORGANISM: human
US-09-540-153-2

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Query Match 11.6%; Score 398.5; DB 3; Length 1525;
Best Local Similarity 24.7%; Pred. No. 5.1e-28;
Matches 145; Conservative 56; Mismatches 178; Indels 207; Gaps 15;
QY 35 IAAASAGPQNCPSVCSNQSFKVCTRGISEVPOGIPSNTRYLNLMENNIOIADT 94
DB 17 LAFLNKVAPQACQSCSG--STVDCHGLALRSVRPIPRNTERDLNGNNITRTKTD 74
QY 95 FRHLHLEVLQGRNSIROIEVGAENGLASNTLSELFDNWLTVIPSGAFYLSKLRLEWL 154
DB 75 FAGLRHLRVLQWENKISTIERGAFQDLKELERLNRNHLQFPFELLFLGTAKLYRLDL 134

```

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155 RNPPIPSVAENRVPVSLMRLDGLKLEYISEGAFGLNKLKYLNLGMCNI----- 208
135 SENQIQIPKAPRGAVDINKLQ-L-DYNQISCTEDGAFRALDLEVLTLNANNITLSVA 193
209 ---KMPNL-----TPVLGL----- 220
194 SFNHPKLRTRFLHNNLYCDCHLAWLSDWLRPRVGLYTCQMGPSHLGHNVAEQKR 253
221 -----ELEMSEN----- 227
254 EVCSDDEEHCQFMAPSCSVLHCPAACSNNIVDCRCGKGLTRIPNLPEITITIRLEQ 313
228 NHPFEIRPGFGLSLKLMVWNSQVSLIERNAPDGLASLVELMLAHNNLSLP----- 282
314 NTIKVPEGAFSPYKLRRLDLSNNQISELAPDAFOGLASLNSLVLYGNKITELPKSLFE 373
283 -----HDL-----FTPLRYLVELHLHH 299
374 GLFSLQLLLNANKINCLRVDAFQDLHNNLLSLYDNKLOTAKGTFSPRALQTHLAAQ 433
300 NPNWCCDIILWAWLREYIPTN--STCCGRCHAPMHMERGRYLVEVDQASFOCS----- 351
434 NPFICDCHLAWLA---DYLHTNPIETSGARCTSPRLANKRIGQIKSKKFRCSGTEDYR 489
352 APFINDAPRDLNISEGRMAELKCRTP-----2XSSVKWLLPVG--TV 391
490 SKLSGDCFDADLACPE---KCRCEGTTVDCNQKLNKIPEHIPOYTAEELRNNNEFTV 543
392 LSHASRHPRIISVLNDGTLNFSHVLSD-----TGVTYTCMVIN 428
544 LEATGIFKKLPOLR--KINFNNKITIEBGAPEGASGVNEILLTS 587

RESULT 13
US-09-312-283C-396
; Sequence 396, Application US/09312283C
; Patent No. 6573095
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James G.
; APPLICANT: Kumble, Krishanand D.
; TITLE OF INVENTION: Compositions Isolated from Skin Cells
; FILE REFERENCE: 11000.1011c2
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 425
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 396
; LENGTH: 1529
; TYPE: PRT
; ORGANISM: Mouse
US-09-312-283C-396

Query Match 11.4%; Score 392; DB 4; Length 1529;
Best Local Similarity 26.7%; Pred. No. 2,1e-27;
Matches 134; Conservative 46; Mismatches 157; Indels 164; Gaps 14;

31 LCAATAAASAGPQPCSVCSNOFSKVVCTRRGLSVPGIGISNTRYLMNNTQMI 90
13 LALVLSILNKVAPHACPAQCSG--STVDCHGLAALRSVPENIENRTERLDLNGNITRI 70
91 QADTRFHLHLEVLQGRNSIRQIEVGAFNGLASLNTLELFDNMLTVIPSGAPEYLSKLR 150
71 TKTDFAGSHLEVLQGMENKSTIBRGAFQDLKELERLRNNLQJFPELLFLGTAKLY 130
151 ELWLRRNNPIESIPSAFNRVPSLMDLGLKLEYISEGAFGLNKLKYLNLGMCNI-- 208
131 RLDSLSENQIAPRKAFRGAVDKNLQ-L-DYNQISCTEDGAFRALDLEVLTLNANNITR 189

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209 ---KMPNL-----TPVLGL----- 220
190 LSVASFNNHMPKLRTRFLHNNLYCDCHLAWLSDWLRQRPVGLYTCQMGPSHLRGHNVAE 249
221 ---ELEMSEN-----HFP-----EIR----- 234
250 VQKREFVCVGHQFMAPSCSVLHCPACTCSNNIVDCRCGKGLTRIPNLPEITITIRLEQ 309
235 -----PGSFHGLSLKLMVWNSQVSLIERNAPDGLASLVELMLAHNNLSLP----- 282
310 NSIRVTPPGAFSPYKLRRLDLSNNQISELAPDAFOGLASLNSLVLYGNKITELPKSLFE 369
283 -----HDL-----FTPLRYLVELHLHH 299
370 GLFSLQLLLNANKINCLRVDAFQDLHNNLLSLYDNKLOTAKGTFSPRALQTHLAAQ 429
300 NPNWCCDIILWAWLREYIPTN--STCCGRCHAPMHMERGRYLVEVDQASFOCSA--PFI 355
430 NPFICDCHLAWLA---DYLHTNPIETSGARCTSPRLANKRIGQIKSKKFRCSAKEQYF 485
356 MDAPRDL--NISEGRMAELKC 374
486 IPGTEDYRSKLSGDCFDADLAC 506

RESULT 14
US-09-188-930-305
; Sequence 305, Application US/09188930A
; Patent No. 6150502
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Strachan, Lorna
; APPLICANT: Sleeman, Matthew
; APPLICANT: Onrust, Rene
; APPLICANT: Murison, James Greg
; TITLE OF INVENTION: Compositions Isolated From Skin Cells
; FILE REFERENCE: 11000.1011c1
; CURRENT FILING DATE: 1998-11-09
; NUMBER OF SEQ ID NOS: 348
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 305
; LENGTH: 649
; TYPE: PRT
; ORGANISM: Mouse
US-09-188-930-305

Query Match 11.4%; Score 391.5; DB 3; Length 649;
Best Local Similarity 24.3%; Pred. No. 5.8e-28;
Matches 164; Conservative 97; Mismatches 284; Indels 149; Gaps 23;

37 AAASAGPQPCSVCSNOFSKVVCTRRGLSEVPQIGIPSN----- 76
22 APLSVVAKSCPSVCRCDAGF--IYCNDRSLTSIPVGIPEDATTLYLQNNQINNVGIPSDL 79
77 -----TRYINLMENNQICADTFRHLHLEVLQGRNS 110
80 KNLKLVQRIYLYHNSLDEFPNLPKYVKELHLOENNRTITYDLSKIPYLEELHLDNS 139
111 IR-QIEVGAFNGLASLNTLELFDNMLTVIPSGAPEYLSKLRRLNRPNTIESIPSAFN 168
140 VSAVIESGAFDSDNYLRLLFLSRNHLSTIPGGLPRTIEELR---LDNRISTISSPSLH 196
169 RVPSLRLDL-LGELKKLEYISEGAFGLNKLKYLNLGMCNITKQMP-NUTPLVGLBELEMS 226
197 GLTSLKRLVLDGNLNNHGLGDKVFFNLVNLTELSENLSLTAAPVNL----- 244
227 GNHFFEIRPGSFHGLSLKLMVWNSQVSLIERNAPDGLASLVELMLAHNNLSLPHDLF 286
245 -----PG-----TSRKLYLQDNHINRVPPNAPSVLRQLYRLDMSNNLNLNLPQIGIF 291

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287 TPLRYLVELHLHHPNWCDCDILMLAWLREYIPTNSTCCG-RCHAPMHRGRLVEVDQ 345  
292 DDLDNITQLILRNPNWYCGCKKAVRWLQS-LPVKNVRLGMCQAPKVRGMAIKOLSA 350  
346 ASFOCSAPPFMDA-----PRDLNISGRMAELKCRTPPMSSVKWLLPNGTIVLSHRSR 398  
351 ELFDCKDSGIVSTQITTAIPNTAYPAGQWPAPVTPQDINKPKLIKDKORTTGSRSKT 410  
399 PRISV--LNDGTLPNS-HVLLSDRGVYTCWTVNAGNSASAYLNVTAEINTSYFFT 455  
411 ILITVKSVPDTIHSWRALPMTALRLSLK--LGHSPAFSGSITEITIVTGERSEYL--- 465  
456 TVTVETTSISPDTRKYPVPTSTGQPAYTSTTVLIOTTRVPKQVAPVADTTDKM 515  
466 -----VTALEPESPRVCMVPMETSNLY---LPDETVCIEBTQAPLRMNPPT-TLNRE 516  
516 QTSLEVMKTKI-----IIGCFVAVTLAAAMLIVFY-----KLRKHQ 556  
517 QEK--EPYKNPNPLAALIGGAVALSVLALLVCWYVHRNGSLFSRNCAYSKGRRKDD 574  
557 RSTVTAARTVHIIQVDED-----IPAATSAATAAPSGVSGEGAVVLTIIHDHINYTKP 612  
575 YAACTKKONSILRETSFQMLP-----ISNE-----PISKEEFVIHTIPP 616  
613 AHGAHWIENSLGNS 626  
617 PNGMNLKNNLSES 630

RESULT 15  
3-09-312-283C-305  
Sequence 305, Application US/09312283C  
Patent No. 6573095  
GENERAL INFORMATION:  
APPLICANT: Watson, James D.  
APPLICANT: Strachan, Lorna  
APPLICANT: Sleeman, Matthew  
APPLICANT: Onrust, Rene  
APPLICANT: Marison, James G.  
APPLICANT: Kumble, Krishanand D.  
TITLE OF INVENTION: Compositions Isolated from Skin Cells  
TITLE OF INVENTION: and Methods for Their Use  
FILE REFERENCE: 11000.1011C2  
CURRENT APPLICATION NUMBER: US/09/312,283C  
CURRENT FILING DATE: 1999-05-14  
NUMBER OF SEQ ID NOS: 425  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 305  
LENGTH: 649  
TYPE: PRT  
ORGANISM: Mouse  
3-09-312-283C-305

Query Match 11.4%; Score 391.5; DB 4; Length 649;  
Best Local Similarity 24.3%; Pred. No. 5.8e-28;  
Matches 164; Conservative 97; Mismatches 264; Indels 149; Gaps 23;

37 AAASAGPQPCSVCSNQFSKVVCTRRGLSEVPQIPSN----- 76  
22 APLSVVAKSCPSVCRCADGFIYCNDRSLTSPVGIPEADATLYLQNNQINNVPISDL 79  
77 -----TRYALMENNIIQADTFRIHLHLEVLQGRNS 110  
80 KMLLVQRIYLYVNSLDEFPNLPKVKVLEHLQENHRTIYDLSKIPYEEHLDDNS 139  
111 IR--QIEVGAFAFGLASLNTLELFDNLWTVIPSGAFYLSKLRLMLRNPNPSTPSYAFN 168  
140 VSAVSEEGAFRDSNYLRLLFLSRNLSTIFGGLPRTTEELR---LDNRISTISSPSLH 196  
169 RYPSLWRDL-L-GLKKLEYISGAFEGFLPNLYLNGHCNKDMP-NLTPVLGLEELKXS 226  
197 GLTSLKRLVLDGNLNNHGLGDKVFNLVNLVTELSLVNSLTAAPVNL----- 244

227 GNHFPPEIRPGSFHGLSLKLLVMNNSQVSLIERNAFDGLASLVELNLAHNLSLPHDLF 286  
245 -----PG-----TSURKUYLQDNHINRVPNPAFSLVRLQYLDNSNNLSMLPQIGIP 291  
287 TPLRYLVELHLHHPNWCDCDILMLAWLREYIPTNSTCCG-RCHAPMHRGRLVEVDQ 345  
292 DDLDNITQLILRNPNWYCGCKKAVRWLQS-LPVKNVRLGMCQAPKVRGMAIKOLSA 350  
346 ASFOCSAPPFMDA-----PRDLNISGRMAELKCRTPPMSSVKWLLPNGTIVLSHRSR 398  
351 ELFDCKDSGIVSTQITTAIPNTAYPAGQWPAPVTPQDINKPKLIKDKORTTGSRSKT 410  
399 PRISV--LNDGTLPNS-HVLLSDRGVYTCWTVNAGNSASAYLNVTAEINTSYFFT 455  
411 ILITVKSVPDTIHSWRALPMTALRLSLK--LGHSPAFSGSITEITIVTGERSEYL--- 465  
456 TVTVETTSISPDTRKYPVPTSTGQPAYTSTTVLIOTTRVPKQVAPVADTTDKM 515  
466 -----VTALEPESPRVCMVPMETSNLY---LPDETVCIEBTQAPLRMNPPT-TLNRE 516  
516 QTSLEVMKTKI-----IIGCFVAVTLAAAMLIVFY-----KLRKHQ 556  
517 QEK--EPYKNPNPLAALIGGAVALSVLALLVCWYVHRNGSLFSRNCAYSKGRRKDD 574  
557 RSTVTAARTVHIIQVDED-----IPAATSAATAAPSGVSGEGAVVLTIIHDHINYTKP 612  
575 YAACTKKONSILRETSFQMLP-----ISNE-----PISKEEFVIHTIPP 616  
613 AHGAHWIENSLGNS 626  
617 PNGMNLKNNLSES 630

RESULT 16  
US-09-182-024A-2  
Sequence 2, Application US/09182024A  
Patent No. 6342370  
GENERAL INFORMATION:  
APPLICANT: Connolly, Timothy  
APPLICANT: Rajput, Bhanu  
TITLE OF INVENTION: Human Slit Polypeptide and Polynucleotides Encoding  
TITLE OF INVENTION: Same  
FILE REFERENCE: 640100-271  
CURRENT APPLICATION NUMBER: US/09/182,024A  
CURRENT FILING DATE: 1998-10-29  
PRIOR APPLICATION NUMBER: 60/063,946  
PRIOR FILING DATE: 1997-10-31  
PRIOR APPLICATION NUMBER: 60/096,420  
PRIOR FILING DATE: 1998-08-13  
NUMBER OF SEQ ID NOS: 5  
SOFTWARE: PatentIn Ver. 2.1  
SEQ ID NO 2  
LENGTH: 1523  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-182-024A-2

Query Match 11.4%; Score 391; DB 4; Length 1523;  
Best Local Similarity 24.3%; Pred. No. 2.6e-27;  
Matches 137; Conservative 58; Mismatches 169; Indels 200; Gaps 14;

31 LCAATAAASAGPQ-NCPSVCSNQFSKVVCTRRGLSEVPQIPSNTRYLNLNENNIQM 89  
18 LALASVLSGPPAVACPTKCTCS--AASVDCGHLGRAVPRGIPRANRLDORNNITR 75  
90 IQADTFRIHLHLEVLQGRNSIRQIEVGAFAFGLASLNTLELFDNLWTVIPSGAFYLSKL 149  
76 ITKMDPAGLKNLRVLEHDNQSVIERGAFQDLKOLERLNKNKQLQVLPPELLFQSTPKL 135  
150 RELMLRNPIESIPYAFNRVPSLRLDGLKKLEYISEGAFGLFNLYLNGHCNMI- 208  
136 TRLDLSENIQIGIPKAFRGITDVKNLQ-LDNNHISCIEDGAFRALDLEILTNNNIS 194

209 -----KMPNLTPL-----VG----- 219  
195 RILWTSFNMFKIRTLFHSNHLCDHLAWUSDWLRQRRVTGQFTLCMAPVHLRGFVA 254  
220 ----- 219  
255 DVQKVEYVCAPHSEPPSCNANSISCPSPCTCSNNIVDCRGKGLMBIPANLPBGIVEIRL 314  
220 -----LELEMSGNHPEIRPGSPHGLSSKLKLVWNSQVSLIERNNA 261  
315 EQNSIKAIPAGAFQYKKLARIISKNQISDIADPAQGLKLSVLSVGNKITEAKGL 374  
262 FDGLASLV-----ELMLAHNLSLPHDLFTPLRYLVELHL 297  
375 FDGLVSLQLLLNANKINCLRVNFTQDLQNLNLSLYDNKLTQISKGLFAPLQSIQTLHL 434  
298 HHPNWCDCDILMLAWLRYIPTN--STCCGRCHAPMHRGRYLVEVDQAFQCS---- 351  
435 AQNFVDCDCHLKMLA----DYLQNPITETSGARCSPPRLANKRISQIKSKXFRCSGSD 490  
352 --APFINDAPDLNISGRWABLKCRTPPMSSVKMLLPNGTIVL-----SHASHR 398  
491 YRSFSECFMDLWCP-----KCR-----EGTIVDCSNQKLVRIPSHLPEY 533  
399 PRISVNDGTINFSHVLSDTGVY 422  
534 VTDRLNDEVS-----VLEATGIF 553  
RESULT 17  
US-09-191-647-7  
Sequence 7, Application US/09191647  
Patent No. 6046015  
GENERAL INFORMATION:  
APPLICANT: Goodman, Corey  
APPLICANT: Brose, Katja  
APPLICANT: Tessier-Lavigne, Marc  
TITLE OF INVENTION: Modulating Robo: Ligand Interactions  
FILE REFERENCE: B98-031-3  
CURRENT APPLICATION NUMBER: US/09/191,647  
CURRENT FILING DATE: 1998-11-13  
EARLIER APPLICATION NUMBER: 60/065,544  
EARLIER FILING DATE: 1997-11-14  
EARLIER APPLICATION NUMBER: 60/081,057  
EARLIER FILING DATE: 1998-04-07  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 7  
LENGTH: 1480  
TYPES: PRT  
ORGANISM: Drosophila melanogaster  
US-09-191-647-7  
Query Match 10.3%; Score 355.5; DB 3; Length 1480;  
Best Local Similarity 25.0%; Pred. No. 5.5e-24;  
Matches 109; Conservative 53; Mismatches 137; Indels 137; Gaps 8;  
46 CPVCSNQSFKVCTRRGLSEVPGIPSNTRYLNLMENNIQMIQADTFRHLHLEVLQ 105  
73 CPRVCSCTG--LNVDCSHRGTSVPRKISADVERLEQGNLTVIYETDFQRLTKLMLQ 130  
106 LGRNSIROIEVGAFFNGLASLNTLFDNLWLTVPISGAFYLSKLRELWLNPNIESIPSY 165  
131 LTDNQIHTIERNFQDLVSLERLDSINNVTTVGRRVFKGAQSLRSIQLDNNQITCLDEH 190  
166 AFNRVPSLRDLGLKLEKLEYISEGAFGLNLYLNLG----- 204  
191 AFKGLVEILTLNN--NNLTSLPHNIFGGLRALRLSDNPPACDCHLSWLSRFLRSAT 249  
205 -----MC-----NIKD----- 210  
250 RLAPYTRCOSQSLKQNVADLHDOEFKCSGLTEHAPMECGAENSCHPCCRCDGIVDCR 309  
Query Match 10.3%; Score 355.5; DB 3; Length 1480;  
Best Local Similarity 25.0%; Pred. No. 5.5e-24;  
Matches 109; Conservative 53; Mismatches 137; Indels 137; Gaps 8;  
46 CPVCSNQSFKVCTRRGLSEVPGIPSNTRYLNLMENNIQMIQADTFRHLHLEVLQ 105  
73 CPRVCSCTG--LNVDCSHRGTSVPRKISADVERLEQGNLTVIYETDFQRLTKLMLQ 130  
106 LGRNSIROIEVGAFFNGLASLNTLFDNLWLTVPISGAFYLSKLRELWLNPNIESIPSY 165  
131 LTDNQIHTIERNFQDLVSLERLDSINNVTTVGRRVFKGAQSLRSIQLDNNQITCLDEH 190  
166 AFNRVPSLRDLGLKLEKLEYISEGAFGLNLYLNLG----- 204  
191 AFKGLVEILTLNN--NNLTSLPHNIFGGLRALRLSDNPPACDCHLSWLSRFLRSAT 249  
205 -----MC-----NIKD----- 210  
250 RLAPYTRCOSQSLKQNVADLHDOEFKCSGLTEHAPMECGAENSCHPCCRCDGIVDCR 309

211 -----MPNLTPLVGLBE----- 222  
310 EKSLSVTPVTLPPDDTTDVRLQNFITELPPKSPSSFRRLRIDLSNNNISRIAHDAISGL 369  
223 -----LEMSGNHPEIRPGSPHGLSSKLKLVWNSQVSLIERNNAFDGLASIVELNLAHNN 277  
370 KQLTTLVLYGNKIKDLPSGVFKGLSRLLLNANEISCIRKDAFDRDLHLSLSLYDNN 429  
278 LSSLPHDLFTPLRYLVELHLHHPNWCDCDILMLAWLRYIPTN--STCCGRCHAPMHR 335  
430 IQSLANGITFAMSKMTVHLAKNPFICDCLRWLA----DYLHKNPIETSGARCSPEKM 485  
336 RGRYLVEVDQAFQCS 351  
486 HRRRIESLREBEFKCS 501  
RESULT 18  
US-09-540-245A-7  
Sequence 7, Application US/09540245A  
Patent No. 6270984  
GENERAL INFORMATION:  
APPLICANT: Goodman, Corey  
APPLICANT: Kid, Thomas  
APPLICANT: Brose, Katja  
APPLICANT: Tessier-Lavigne, Marc  
TITLE OF INVENTION: Modulating Robo: Ligand Interactions  
FILE REFERENCE: B98-031-3  
CURRENT APPLICATION NUMBER: US/09/540,245A  
CURRENT FILING DATE: 2000-03-31  
PRIOR APPLICATION NUMBER: 60/065,544  
PRIOR FILING DATE: 1997-11-14  
PRIOR APPLICATION NUMBER: 60/081,057  
PRIOR FILING DATE: 1998-04-07  
NUMBER OF SEQ ID NOS: 20  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 7  
LENGTH: 1480  
TYPES: PRT  
ORGANISM: Drosophila melanogaster  
US-09-540-245A-7  
Query Match 10.3%; Score 355.5; DB 3; Length 1480;  
Best Local Similarity 25.0%; Pred. No. 5.5e-24;  
Matches 109; Conservative 53; Mismatches 137; Indels 137; Gaps 8;  
46 CPVCSNQSFKVCTRRGLSEVPGIPSNTRYLNLMENNIQMIQADTFRHLHLEVLQ 105  
73 CPRVCSCTG--LNVDCSHRGTSVPRKISADVERLEQGNLTVIYETDFQRLTKLMLQ 130  
106 LGRNSIROIEVGAFFNGLASLNTLFDNLWLTVPISGAFYLSKLRELWLNPNIESIPSY 165  
131 LTDNQIHTIERNFQDLVSLERLDSINNVTTVGRRVFKGAQSLRSIQLDNNQITCLDEH 190  
166 AFNRVPSLRDLGLKLEKLEYISEGAFGLNLYLNLG----- 204  
191 AFKGLVEILTLNN--NNLTSLPHNIFGGLRALRLSDNPPACDCHLSWLSRFLRSAT 249  
205 -----MC-----NIKD----- 210  
250 RLAPYTRCOSQSLKQNVADLHDOEFKCSGLTEHAPMECGAENSCHPCCRCDGIVDCR 309  
211 -----MPNLTPLVGLBE----- 222  
310 EKSLSVTPVTLPPDDTTDVRLQNFITELPPKSPSSFRRLRIDLSNNNISRIAHDAISGL 369  
223 -----LEMSGNHPEIRPGSPHGLSSKLKLVWNSQVSLIERNNAFDGLASIVELNLAHNN 277  
370 KQLTTLVLYGNKIKDLPSGVFKGLSRLLLNANEISCIRKDAFDRDLHLSLSLYDNN 429  
278 LSSLPHDLFTPLRYLVELHLHHPNWCDCDILMLAWLRYIPTN--STCCGRCHAPMHR 335

b 430 IQSLANGTTDAMKSMKTVHLAKNPFICDCNRLA-----DYLHKNPITSGARCESPKRM 485  
y 336 RGYLVEVDQASPOCS 351  
b 486 HRRRIESLREKFKCS 501  
ESULT 19  
S-09-540-153-7  
Sequence 7, Application US/09540153  
Patent No. 6270995  
GENERAL INFORMATION:  
APPLICANT: Goodman, Corey  
APPLICANT: Kid, Thomas  
APPLICANT: Brosse, Katja  
APPLICANT: Tessier-Lavigne, Marc  
TITLE OF INVENTION: Modulating Robo: Ligand Interactions  
FILE REFERENCES: B98-031-3  
CURRENT APPLICATION NUMBER: US/09/540,153  
CURRENT FILING DATE: 2000-03-31  
PRIOR APPLICATION NUMBER: 09/191,647  
PRIOR FILING DATE: 1998-11-13  
PRIOR APPLICATION NUMBER: 60/081,057  
PRIOR FILING DATE: 1998-04-07  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: Patent in Ver. 2.0  
SEQ ID NO 7  
LENGTH: 1480  
TYPE: PRT  
ORGANISM: Drosophila melanogaster  
S-09-540-153-7  
Query Match 10.3%; Score 355.5; DB 3; Length 1480;  
Best Local Similarity 25.0%; Pred. No. 5.5e-24;  
Matches 109; Conservative 53; Mismatches 137; Indels 137; Gaps 8;  
y 46 CPSCVCSNQFSKVCTRGSLVPGIPSNTRYLNLMENNIMQIADTFRLHHLVQLQ 105  
b 73 CPKVCSTG--LNVDCSHRGLTSPVKISADVERLELQGNLTVIYETDFQLTKRLMLQ 130  
y 106 LGRNSIRQIEVGAFNGLASLNTLELFDNLTVPISGAFYLSKLRELMLRNNPIESIPSY 165  
b 131 LTDNQHTIERNFODLVSLERLIDISNNVITVGRVFKGAQSLSLQLDNNQITCLDEH 190  
y 166 AFNRVPSLRDLGELKXLEYISEGAPGELFNKVLNLG----- 204  
b 191 AFKGLVELETLTNN--NLTSLPHNIFGGLGRRLRLSDNPFACDCHLSMLSLRFLRSAT 249  
y 205 -----MC-----NKKD----- 210  
b 250 RLAPYTRCQSPSLQKQNVADLHQEFKGLTEHAPMECGAENSCPHPCADGIVDCR 309  
y 211 -----MPLTPIVGLER----- 222  
b 310 EKSLSVVPVTLPTDITVRLQNFITELPKFSFRRRLRIDLGNNNISRIADALSGL 369  
y 223 -----LEMSGNHPEPRPGSFGSLSLKLLWMSOVSLIERNAFDGLASIVELMLANN 277  
b 370 KQTLTVLVGNKIDLPISGVFKGLSLRLILLANNEISCIRKADFDLSLSLYDNN 429  
y 278 LSSLPHDLFTPLRYVLVHLLHNNPMNCDIILWLAWMLREYIPTX--STCCGRCHAPMEM 335  
b 430 IQSLANGTTDAMKSMKTVHLAKNPFICDCNRLA-----DYLHKNPITSGARCESPKRM 485  
y 336 RGYLVEVDQASPOCS 351  
b 486 HRRRIESLREKFKCS 501  
ESULT 20  
CT-US91-09055-2  
Sequence 2, Application PC/TUS9109055  
GENERAL INFORMATION:

APPLICANT: Rothberg, Jonathan Marc and Artavanis-Tsakonas, Spyridon  
TITLE OF INVENTION: Purified SLIT protein and Sequence Elements Thereof  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Yale University  
ADDRESSEE: Office of Cooperative Research  
STREET: 246 Church Street  
STREET: Suite 401  
CITY: New Haven  
STATE: Connecticut  
COUNTRY: USA  
ZIP: 06510  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette, 3.50 inch, 800 Kb storage  
COMPUTER: Apple Macintosh  
OPERATING SYSTEM: Macintosh 6.0.5  
SOFTWARE: Microsoft Word 4.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US91/09055  
FILING DATE: 19911127  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/07/624,135  
FILING DATE: 7-DEC-1990  
ATTORNEY/AGENT INFORMATION:  
NAME: Barth, Richard J.  
REGISTRATION NUMBER: 28,180  
REFERENCE/DOCKET NUMBER: 900964/RSE  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 972-1400  
TELEFAX: (212) 370-1622  
TELEX: 236268  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1480 amino acids  
TYPE: AMINO ACIDS  
TOPOLOGY: Linear  
MOLECULE TYPE: protein  
FEATURE:  
NAME/KEY: signal sequence  
LOCATION: 1 to 36  
IDENTIFICATION METHOD: similarity to other signal  
OTHER INFORMATION: Directs Export  
NAME/KEY: Four Plank-LRR-Flank domains  
LOCATION: 37 to 910  
IDENTIFICATION METHOD: Array of Plank-LRR-Flank  
OTHER INFORMATION: mediates adhesive events  
NAME/KEY: Tandem EGF-like repeats  
LOCATION: 911 to 1150  
IDENTIFICATION METHOD: similarity to tandem EGF-like  
OTHER INFORMATION: protein-protein interactions  
NAME/KEY: 7th EGF-like repeat  
LOCATION: 1353 to 1393  
IDENTIFICATION METHOD: similarity to epidermal growth  
OTHER INFORMATION: Involvement in receptor-ligand  
NAME/KEY: Alternative splice segment  
LOCATION: 1394 to 1404  
IDENTIFICATION METHOD: experimental  
OTHER INFORMATION: developmentally regulated  
NAME/KEY: COOH-terminal region  
LOCATION: 1405 to 1480  
IDENTIFICATION METHOD: experimental  
PCT-US91-09055-2

Query Match 10.3%; Score 355.5; DB 5; Length 1480;  
Best Local Similarity 25.0%; Pred. No. 5.5e-24;  
Matches 109; Conservative 53; Mismatches 137; Indels 137; Gaps 8;  
Qy 46 CPSCVCSNQFSKVCTRGSLVPGIPSNTRYLNLMENNIMQIADTFRLHHLVQLQ 105  
Db 73 CPKVCSTG--LNVDCSHRGLTSPVKISADVERLELQGNLTVIYETDFQLTKRLMLQ 130  
Qy 106 LGRNSIRQIEVGAFNGLASLNTLELFDNLTVPISGAFYLSKLRELMLRNNPIESIPSY 165

131 LTNDQIHTIERNSPQDLVSLERLDISNNVITVGRVFKGAQSLRSLQDNNQITCLDEH 190  
166 AFNRVPSLMDLDGELKLEYISEGAFEGFLNLYKYLNG----- 204  
191 AFKGLVELEILTNN--NNLTSLPHNTFPGGLGRURALRLSDNPFACDCHLSWLSRFLRSAT 249  
205 -----MC-----NIXD----- 210  
250 RLAPYTRCQSPSQLKQGNVADLHDQEFKCSGLTEHAPMEGAENSCPHPCRCADGIVDCR 309  
211 -----MNLTPVLGLEE----- 222  
310 EKSUTSVFVTLDDTTDVRLQEQNFITELPPKSPSSFRRLRRIDLNNISRIAHDAISGL 369  
223 -----LWMSGNHPEIRPGSFHGLSSLLKLVWNSQVSLIERNAPDGLASLVELNLAHNN 277  
370 KQLTTLVLYGNKIDLPSSGVFKGLSRLLLNANEISCIKDAFRDLHLSLSLYDNN 429  
278 LSSLPDLFTPLRYLVELHLHHPNWCDCDILMLAWLREYIPTN--STCCGRCHAPMEM 335  
430 IQSLANGTFDAMKSMKTVHLAKNPFICDCLRLWLA-----DYLHKNPIETSGARCESPKEM 485  
336 RGRYLVEVDQASFOCS 351  
486 HRRRIESLREEKFKCS 501

## RESULT 21

US-09-182-024A-5  
; Sequence 5, Application US/09182024A  
; Patent No. 6342370  
; GENERAL INFORMATION:  
; APPLICANT: Connolly, Timothy  
; APPLICANT: Rajput, Bhanu  
; TITLE OF INVENTION: Human Slit Polypeptide and Polynucleotides Encoding  
; TITLE OF INVENTION: Same  
; FILE REFERENCE: 640100-271  
; CURRENT APPLICATION NUMBER: US/09/182,024A  
; PRIOR FILING DATE: 1998-10-23  
; PRIOR FILING DATE: 1997-10-31  
; PRIOR FILING DATE: 1998-08-13  
; NUMBER OF SEQ ID NOS: 5  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 5  
; LENGTH: 1480  
; TYPE: PRT  
; ORGANISM: Drosophila melanogaster  
US-09-182-024A-5

Query Match 10.3%; Score 353.5; DB 4; Length 1480;  
Best Local Similarity 25.0%; Pred. No. 8.4e-24;  
Matches 109; Conservative 53; Mismatches 137; Indels 137; Gaps 8;  
QY 46 CPSVCSNQSFKVCTRRGLSEVPQGISNTRYLNLMNNMIQADTFPHLHLEVLQ 105  
DB 73 CERVCSCTG--LNVDCSHRGLTSVPRKISADVERLEQGNLTVIYETDFQRLTKLMLQ 130  
QY 106 LGRNSIRIEVGAFLASLNTLELFDNLTVPISGAFEYLSKLRELWLNPNPIESIPSY 165  
DB 131 LTNDQIHTIERNSPQDLVSLERLDISNNVITVGRVFKGAQSLRSLQDNNQITCLDEH 190  
QY 166 AFNRVPSLMDLDGELKLEYISEGAFEGFLNLYKYLNG----- 204  
DB 191 AFKGLVELEILTNN--NNLTSLPHNTFPGGLGRURALRLSDNPFACDCHLSWLSRFLRSAT 249  
QY 205 -----MC-----NIXD----- 210  
DB 250 RLAPYTRCQSPSQLKQGNVADLHDQEFKCSGLTEHAPMEGAENSCPHPCRCADGIVDCR 309  
QY 211 -----MNLTPVLGLEE----- 222

DB 310 EKSUTSVFVTLDDTTDVRLQEQNFITELPPKSPSSFRRLRRIDLNNISRIAHDAISGL 369  
QY 223 -----LWMSGNHPEIRPGSFHGLSSLLKLVWNSQVSLIERNAPDGLASLVELNLAHNN 277  
DB 370 KQLTTLVLYGNKIDLPSSGVFKGLSRLLLNANEISCIKDAFRDLHLSLSLYDNN 429  
QY 278 LSSLPDLFTPLRYLVELHLHHPNWCDCDILMLAWLREYIPTN--STCCGRCHAPMEM 335  
DB 430 IQSLANGTFDAMKSMKTVHLAKNPFICDCLRLWLA-----DYLHKNPIETSGARCESPKEM 485  
QY 336 RGRYLVEVDQASFOCS 351  
DB 486 HRRRIESLREEKFKCS 501  
RESULT 22  
US-09-461-325-161  
; Sequence 161, Application US/09461325A  
; Patent No. 6475753  
; GENERAL INFORMATION:  
; APPLICANT: Ruben et al.  
; TITLE OF INVENTION: 94 Human Secreted Proteins  
; FILE REFERENCE: P2029P1  
; CURRENT APPLICATION NUMBER: US/09/461,325A  
; CURRENT FILING DATE: 1999-12-14  
; EARLIER APPLICATION NUMBER: PCT/US99/134118  
; EARLIER FILING DATE: 1999-06-15  
; EARLIER APPLICATION NUMBER: 60/089,507  
; EARLIER FILING DATE: 1998-06-16  
; EARLIER APPLICATION NUMBER: 60/089,508  
; EARLIER FILING DATE: 1998-06-16  
; EARLIER APPLICATION NUMBER: 60/089,509  
; EARLIER FILING DATE: 1998-06-16  
; EARLIER APPLICATION NUMBER: 60/089,510  
; EARLIER FILING DATE: 1998-06-16  
; EARLIER APPLICATION NUMBER: 60/090,112  
; EARLIER FILING DATE: 1998-06-22  
; EARLIER APPLICATION NUMBER: 60/090,113  
; EARLIER FILING DATE: 1998-06-22  
; NUMBER OF SEQ ID NOS: 532  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 161  
; LENGTH: 380  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-461-325-161

Query Match 10.2%; Score 351; DB 4; Length 380;  
Best Local Similarity 32.4%; Pred. No. 1.6e-24;  
Matches 103; Conservative 46; Mismatches 129; Indels 40; Gaps 8;  
QY 28 VWILCAIAAASAGPNCPCSVCSNQSFKV--CTRRGLSEVPQGISNTRYLNLMEN 85  
DB 16 LWLQAWQAAP-----CPGACVCYNE--PKVITSCPQGLQAVPVGIPAAASORIFLHGN 67  
QY 86 NIQMIQADTFPHLHLEVLQGRNSIRIEVGAFLASLNTLELFDN--WLTVPISGAPE 144  
DB 68 RISHVPAASAFACRNLTLILHLSNVLARIADAAATGALLLEQLDLSNQAQLRSVDPAFTH 127  
QY 145 YLSKLRELWLNPNPIESIPSYAFNRVPSLMDLDGELKLEYISEGAFEGFLNLYKYLNG 204  
DB 128 GLGLRHTV-----HLDRCGLQEL-----GPGLFRGLAALQYLYLQ 162  
QY 205 MCNIKDMNLT--PLVGLRELEMSGNHPEIRPGSFHGLSSLLKLVWNSQVSLIERNAF 262  
DB 163 DNALQALPDDTFDRLGNLTFLHGNRISSVPERAFRGLHSLDRLLHQNRAVHVHAF 222  
QY 263 DGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHHPNWCDCDILMLAWLREYIPTN 322  
DB 223 RDLGELMTLYLFANNLSALPTEALAPLALQYLRLNDNPNWVCDRCRAPLWALQKPRGSS 282  
QY 323 STCCGRCHAPMEMRGRYL 340



OPERATING SYSTEM: DOS  
 SOFTWARE: FastSeq for Windows Version 2.0  
 CURRENT APPLICATION DATA: US/08/986,485  
 APPLICATION NUMBER: US/08/986,485  
 FILING DATE: 08-DEC-1997  
 CLASSIFICATION:  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 60/059,448  
 FILING DATE: 22-SEP-1997  
 ATTORNEY/AGENT INFORMATION:  
 NAME: PRESTIA, PAUL F  
 REGISTRATION NUMBER: 23,031  
 REFERENCE/DOCKET NUMBER: GH-70264  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 610-407-0700  
 TELEFAX: 610-407-0701  
 TELEX: 846169  
 INFORMATION FOR SEQ ID NO: 7:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 231 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-986-485-7

Query Match 9.1%; Score 312.5; DB 3; Length 231;  
 Best Local Similarity 26.5%; Pred. No. 3e-21;  
 Matches 81; Conservative 40; Mismatches 86; Indels 99; Gaps 4;  
 46 CPSVCSNQSKVCTRGISEVPOGIPSNTRYLNLMENNIOQADTFHLHLVLEVLQ 105  
 17 CPRVCSCTG--LVNDCSHRGITSPKISADVERLELQGNLVIVETFORLTKLRMLQ 74  
 106 LGRNSIRQIEVGAFNGLASLNTLELFDNMLTVIPSGAFYLSKRLRLNNPIESIPSY 165  
 75 LTDNQIHTIERNSPQDLVSLRLDISNNVITVG----- 108  
 166 AFNPVPSLMRLDLGELKLEIVISGAFEGFLNKLNLGMCNKMKNLTPVLGLEELEM 225  
 109 --RRV----- 111  
 226 SGNHPEIRPGSFHGLSLKXKLWVNSQVSLIERNAPDGLASIVELNLAHNLSLPHDL 285  
 112 -----FKGAQSLRSQLDNQIITCLDHPAFKGLVEILITLNNNLTSLPHNI 159  
 286 FTPLRYLVELHLHNPWNCDDIILWLAWLREYIPTNSTCCGCHAPMNRGRYLYVEVDQ 345  
 150 FGGLGRRLRALSDNPFACDCHLSWLSRFLRS--ATRLAPYTRCQSPSQKQNVADLHD 217  
 346 ASFOCS 351  
 218 QEPKCS 223

RESULT 26  
 US-08-190-802A-50  
 ; Sequence 50, Application US/08190802A  
 ; Patent No. 5519003  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Mochly-Rosen, Daria  
 ; APPLICANT: Ron, Dorit  
 ; TITLE OF INVENTION: WD-40 - Derived Peptides and Uses  
 ; TITLE OF INVENTION: Thereof  
 ; NUMBER OF SEQUENCES: 265  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Dehlinger & Associates  
 ; STREET: P.O. Box 60850  
 ; CITY: Palo Alto  
 ; STATE: CA  
 ; COUNTRY: USA  
 ; ZIP: 94306-0850  
 ; COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA: US/08/190,802A  
 APPLICATION NUMBER: US/08/190,802A  
 FILING DATE: 01-FEB-1994  
 CLASSIFICATION: 530  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Fabian, Gary R.  
 REGISTRATION NUMBER: 33,875  
 REFERENCE/DOCKET NUMBER: 8600-0139  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415) 324-0880  
 TELEFAX: (415) 324-0960  
 INFORMATION FOR SEQ ID NO: 50:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 603 amino acids  
 TYPE: amino acid  
 TOPOLOGY: unknown  
 MOLECULE TYPE: protein  
 HYPOTHETICAL: NO  
 ANTI-SENSE: NO  
 ORIGINAL SOURCE:  
 INDIVIDUAL ISOLATE: Insulin-like growth factor bind.  
 INDIVIDUAL ISOLATE: pro. complex-rat, Fig. 33  
 US-08-190-802A-50  
 Query Match 9.0%; Score 310; DB 1; Length 603;  
 Best Local Similarity 31.2%; Pred. No. 2.5e-20;  
 Matches 92; Conservative 48; Mismatches 123; Indels 32; Gaps 5;  
 36 AAAASAGPQCPCSCSN---QPSKVCTRGISEVPOGIPSNTRYLNLMENNIOQ 91  
 32 ASADASEPQ-CPVACTSHDDYTDLSVFCSSKNLTHLPDDIPVSTRALWLDGNLSSIP 90  
 92 ADTPRHLHLLE-----VLQGRNSIRQIEVGAFNGLASLNT 127  
 91 SAAPQLSSLDLFLNQLGSLRSLPQALLGLQLNLYLHLERLNLAVGLFTHTPSLAS 150  
 128 LELFDNMLTVIPSGAFYLSKRLRLNNPIBSIPSYAFNRVPSLMRLDLGELKLEIY 187  
 151 LSLSSNLGRLEEGFLGSLHLDNLGNLSLVLPDTPVQGLGNLHVLVAG-NKLTYL 209  
 188 SEGAFGLNKLNLGMCNKMKN--LTPVLGLEELEMNGNHPPEIRPGSFHGLSSLK 245  
 210 QPALFCGLGELRELDLSRNALRSVKANVFVHLPRLOKLYLDRNLITAVARGAFGLMKALR 269  
 246 KLVWNSQVSLIERNAPDGLASIVELNLAHNLSLPHDLFTPLRYLVELHLHNN 300  
 270 WLDLSHNRVAGLMEDTFPGLGLHVLRLAHNAIASLRPTFKDLHFLLEQLQGN 324

RESULT 27  
 US-08-477-346-50  
 ; Sequence 50, Application US/08477346  
 ; Patent No. 6262023  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Mochly-Rosen, Daria  
 ; APPLICANT: Ron, Dorit  
 ; TITLE OF INVENTION: WD-40 - Derived Peptides and Uses  
 ; TITLE OF INVENTION: Thereof  
 ; NUMBER OF SEQUENCES: 265  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Morrison & Foerster  
 ; STREET: 2000 Pennsylvania Avenue, NW  
 ; CITY: Washington  
 ; STATE: DC  
 ; COUNTRY: USA  
 ; ZIP: 20006-1812  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/477,346  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/487,072  
FILING DATE: 07-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: MURASHIGE, KATE H.  
REGISTRATION NUMBER: 29,959  
REFERENCE/DOCKET NUMBER: 2550-0025.20  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 887-1500  
TELEFAX: (202) 887-0763  
INFORMATION FOR SEQ ID NO: 50:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 603 amino acids  
TYPE: amino acid  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: Insulin-like growth factor bind.  
INDIVIDUAL ISOLATE: pro. complex-rat, Fig. 33  
3-08-477-346-50

Query Match 9.0%; Score 310; DB 3; Length 603;  
Best Local Similarity 31.2%; Pred. No. 2.5e-20;  
Matches 92; Conservative 48; Mismatches 123; Indels 32; Gaps 5;  
36 AAAAGAGPNCPSVCSGN----QPSKVCTRRGLSEVPGQIPSNRYINLMENNIQ 91  
32 ASADAEGPO-CPVACTSHDDYDELSVFCSSKNLTHLPDDIPVSTRALWLDGNNLSIP 90  
92 ADTFRHLHLE-----VLOLGRNSIROEVGAFNGLASINT 127  
91 SAAFONLSLDFNLQGSWLRSLRQALLGLQNLVYLLHNRNLENLAVGLFTHTPSLAS 150  
128 LELFONMLTVIPSGAFYLSKRLRLMNRNPIETSPVAENRVPISLRDLGELKLEYI 187  
151 LSLSNLRLRLEEGFQGLSHLWDLNGLWNSLVLPDPTVFOGLGNLHVLVAG-NKLYL 209  
188 SGGAEGFLNLYNLGMCNIKMPN--LTPVGLLEEMSGNHFPEIRPGSFHGLSLK 245  
210 QPALFCGLGELRELDLSRNALRSVKANVFVHLPRLOKLYLDRNLITAVAPGAFGLMKALR 269  
246 KLMVNSQVSLIERNAFDGLASLVELNLAHNLSLPHDLFTPLRYLVVHLLHN 300  
270 WLDLSHNRVAGLMEDTFPGLGLGHVLRLAHNAIASLRPRTFKDLHFLEELQLGHN 324

RESULT 28  
3-08-473-089-50  
Sequence 50, Application US/08473089  
Patent No. 6342368  
GENERAL INFORMATION:  
APPLICANT: Mochly-Rosen, Daria  
APPLICANT: Ron, Dorit  
TITLE OF INVENTION: WD-40 - Derived Peptides and Uses  
NUMBER OF SEQUENCES: 265  
CORRESPONDENCE ADDRESS:  
ADDRESS: Morrison & Foerster  
STREET: 2000 Pennsylvania Avenue, NW  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20006-1812  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS

COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/473,089  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: MURASHIGE, KATE H.  
REGISTRATION NUMBER: 29,959  
REFERENCE/DOCKET NUMBER: 2550-0025.22  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 887-1500  
TELEFAX: (202) 887-0763  
INFORMATION FOR SEQ ID NO: 50:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 603 amino acids  
TYPE: amino acid  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: Insulin-like growth factor bind.  
INDIVIDUAL ISOLATE: pro. complex-rat, Fig. 33  
US-08-473-089-50

Query Match 9.0%; Score 310; DB 4; Length 603;  
Best Local Similarity 31.2%; Pred. No. 2.5e-20;  
Matches 92; Conservative 48; Mismatches 123; Indels 32; Gaps 5;  
36 AAAAGAGPNCPSVCSGN----QPSKVCTRRGLSEVPGQIPSNRYINLMENNIQ 91  
32 ASADAEGPO-CPVACTSHDDYDELSVFCSSKNLTHLPDDIPVSTRALWLDGNNLSIP 90  
92 ADTFRHLHLE-----VLOLGRNSIROEVGAFNGLASINT 127  
91 SAAFONLSLDFNLQGSWLRSLRQALLGLQNLVYLLHNRNLENLAVGLFTHTPSLAS 150  
128 LELFONMLTVIPSGAFYLSKRLRLMNRNPIETSPVAENRVPISLRDLGELKLEYI 187  
151 LSLSNLRLRLEEGFQGLSHLWDLNGLWNSLVLPDPTVFOGLGNLHVLVAG-NKLYL 209  
188 SGGAEGFLNLYNLGMCNIKMPN--LTPVGLLEEMSGNHFPEIRPGSFHGLSLK 245  
210 QPALFCGLGELRELDLSRNALRSVKANVFVHLPRLOKLYLDRNLITAVAPGAFGLMKALR 269  
246 KLMVNSQVSLIERNAFDGLASLVELNLAHNLSLPHDLFTPLRYLVVHLLHN 300  
270 WLDLSHNRVAGLMEDTFPGLGLGHVLRLAHNAIASLRPRTFKDLHFLEELQLGHN 324

RESULT 29  
US-08-487-072A-50  
Sequence 50, Application US/08487072A  
Patent No. 6423684  
GENERAL INFORMATION:  
APPLICANT: Mochly-Rosen, Daria  
APPLICANT: Ron, Dorit  
TITLE OF INVENTION: WD-40 - Derived Peptides and Uses  
NUMBER OF SEQUENCES: 265  
CORRESPONDENCE ADDRESS:  
ADDRESS: Morrison & Foerster  
STREET: 2000 Pennsylvania Avenue, NW  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20006-1812  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/487,072A  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: MURASHIGE KATE H.  
REGISTRATION NUMBER: 29,959  
REFERENCE/DOCKET NUMBER: 2550-0025.20  
TELEPHONE: (202) 887-1500  
TELEFAX: (202) 887-0763  
INFORMATION FOR SEQ ID NO: 50:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 603 amino acids  
TYPE: amino acid  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: Insulin-like growth factor bind.  
INDIVIDUAL ISOLATE: pro. complex-rat, Fig. 33  
US-08-487-072A-50

Query Match 9.0%; Score 310; DB 4; Length 603;  
Best Local Similarity 31.2%; Pred. No. 2.5e-20;  
Matches 92; Conservative 48; Mismatches 123; Indels 32; Gaps 5;  
Y 36 AAASAGPQCPCVCSN-----QFSKVCTRGSLSEVPGIISNTRYLNLMENNIQIQ 91  
b 32 ASADAEGPQ-CPVACTSHDDYDELSEVFCSSKNLTHLPDDIPVSTRALWLOGNLSIP 90  
Y 92 ADTEPHLHLE-----VLQGRNSIRQIEVGAFAGLASLT 127  
b 91 SAARQNLSLDFNLQSSWLSRLEPQALLGLQNLVYHLERNLNLAVGLFHTTSLAS 150  
Y 128 LEFDNMLTVIPSGAFYLSKRLRLRNPIESIPSYAFNRVPSLNRDLGELKLEYI 187  
b 151 LSLSSNLGLRLEGLFQGLSHMDNLGNLSVLPDTPVQGLGNLHFLVLAG-NKLTLYL 209  
Y 188 SEGAFGLFNLYNLGNCIKMPN--LTPVLCLELEMSGNHFFPIRPGSFHGLSSIK 245  
b 210 QPALFCGLGEURELDLGRNALSRYANVFVHLFELQKLYLDRNLITAVAFGLGNKALR 269  
Y 246 KLVWNSQVSLIERNAFDGLASVELNLARNLSSLPDLPPLRYLVELLHNN 300  
b 270 WLDLSHNRVAGLMEDTFPGLLGLHVLRLAHNAIASLRPTFKDLHFLHLELQGHN 324

RESULT 30  
US-08-190-802A-49  
Sequence 49, Application US/08190802A  
Patent No. 5519003  
GENERAL INFORMATION:  
APPLICANT: Mochly-Rosen, Daria  
TITLE OF INVENTION: WD-40 - Derived Peptides and Uses  
NUMBER OF SEQUENCES: 265  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Dehlinger & Associates  
STREET: P.O. Box 60850  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94306-0850  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/190,802A  
FILING DATE: 01-FEB-1994  
CLASSIFICATION: 530  
ATTORNEY/AGENT INFORMATION:  
NAME: Fabian, Gary R.  
REGISTRATION NUMBER: 33,875  
REFERENCE/DOCKET NUMBER: 8600-0139  
TELEPHONE: (415) 324-0880  
TELEFAX: (415) 324-0960  
INFORMATION FOR SEQ ID NO: 49:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 605 amino acids  
TYPE: amino acid  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: Insulin-like growth factor binding  
INDIVIDUAL ISOLATE: protein complex, Fig. 32  
US-08-190-802A-49

Query Match 9.0%; Score 309; DB 1; Length 605;  
Best Local Similarity 23.6%; Pred. No. 3.1e-20;  
Matches 121; Conservative 69; Mismatches 154; Indels 168; Gaps 16;  
Q 42 GPQCPCVCSN-----NPFKVVCTRRGLSEVPGIIPNTR----- 78  
b 38 GPA-CPAACVCSYDDADELS-VFCSSRLTRLPDGVPGGTQALWLDGNLSSVPPAAFO 95  
Q 79 -----YLNLMENNIQIQADTFRLHHLHLEVLQGR 108  
b 96 NLSSLGFLNTGGGSLSEPOALLGLNCHLHLENNQRSLALGTFAHTPALASGLSN 155  
Q 109 NSIRQIEVGAFNGIASLNTLEFDNMLTVIPSGAFYLSKRLRLRNPIESIPSYAFN 168  
b 156 NLSLELDGLFEGGLSLMDNLGNLSLAVLPDAAFRGLGSLRELVLNAGRLAYLQPALFS 215  
Q 169 RVPGLMRDLG-----ELXKL-----EYISEGAFGLFNLYNL-- 203  
b 216 GLAELELDL-SRNALRAIKANVFVQLPRQKLYLDRNLIAAVAPGAFGLKALRWLDLH 275  
Q 204 -----GMCNFK-----DMPNLTP-----LVGLEELEMNGHFFPIRFSFH 239  
b 276 NRVALLEDTPGLGLGLRVLRLSHNALASLRPTFKDLHFLHLELQGHNRIRQLAERSFE 335  
Q 240 GLSSIKLWNSQVSLIERNAFDGLASVELNLARNLSSLPDLPPLRYLVELLHNN 299  
b 336 GLGQLEVLTLDHNLQEVKAGAFGLTNVAVMNLGNCLENLPEQVFRGLGKLHSLHL-- 393  
Q 300 NPWNCDCDILWAWLWREYIPTNSTCCGRCH-----APGMHGRGYLVEVDQASFQ 349  
b 394 -----EGSCLGRIRPHTFTCLSLRLFLKDNGLVGLIEQSLSW 431  
Q 350 CSAPFI-MDAPRD-----LNISEGRMAELKC-RTPPMSSVYWL----- 395  
b 432 GLAELELDLTSNQLTHLPHRLFQGLKLEYLLSRNRLAELPADALGPLQRAFVLDVSH 491  
Q 386 -----LNGTVLSHARPRISVLNDGTLPFS 412  
b 492 NRLBALPN-SLLAPLGRLYLSLNNSLRFTFT 522

RESULT 31  
US-08-477-346-49  
Sequence 49, Application US/08477346  
Patent No. 6262023  
GENERAL INFORMATION:  
APPLICANT: Mochly-Rosen, Daria  
TITLE OF INVENTION: WD-40 - Derived Peptides and Uses  
TITLE OF INVENTION: Thereof



NUMBER OF SEQUENCES: 265  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Morrison & Foerster  
STREET: 2000 Pennsylvania Avenue, NW  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20006-1812  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/477,346  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/487,072  
FILING DATE: 07-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: MURASHIGE, KATE H.  
REGISTRATION NUMBER: 29,959  
REFERENCE/DOCKET NUMBER: 2550-0025.20  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 887-1500  
TELEFAX: (202) 887-0763  
INFORMATION FOR SEQ ID NO: 49:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 605 amino acids  
TYPE: amino acid  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: Insulin-like growth factor binding  
INDIVIDUAL ISOLATE: protein complex, Fig. 32  
j-08-477-346-49

Query Match 9.0%; Score 309; DB 3; Length 605;  
Best Local Similarity 23.6%; Pred. No. 3.1e-20;  
Matches 121; Conservative 69; Mismatches 154; Indels 168; Gaps 16;

42 GPONCPSCVCS-----NOFSKVCTRGSLSEVPGIPSNTR----- 78  
38 GPA-CPACVCSYDDADELS-VFCSSRNLTPLDVGPGTQALWLDGNLSSVPPAFQ 95  
79 -----YINLMENNIQIADTFPHLHHLEVLQGR 108  
96 NLSGLFLNLOGGQGLSLEPQALLGLENLCHLHLERNQLRSALGTFAHTPALASGLSN 155  
109 NSIROIEVGAENGLASLTLEFDNWLTVIPSGAPEYLSKRLRLNRPTEIPSAFN 168  
156 NLSRLDGLFEGGLSMDLNGWNSLAVIPDAAPRGSLRSLVLAGNRLAYLPALFS 215  
169 RYPSLRLDLG-----ELKKL-----EYISGAPEGLFNKLYNL-- 203  
216 GLAELRELDLSRNALRAIKANVFQLPRLQKLYLDRNLIAAFAFGFLGLKALRWLDLSH 275  
204 -----GMCNIK-----DMENLTP-----LVGLEELMSGNHPEIRPQSFH 239  
276 NRVAGLLEDTFFGLGLGKLVRLSHNAIASLPRFTKOLFLEELQLGNRIQRAERSFE 335  
240 GLSSKKLWNNMSQVSLERNAFDGLASLIVNLAHNNLSSLPDLPFLRYLVLLHLHH 299  
336 GLGQLEVLTDHNLQEVKAGAFGLTVAVNNLSGKCLNLPQVFRGLGKLSHL-- 393  
300 NPWNCDDILMLAWLREYIPFNSTCCGRCH-----APHEMRGRVLEVDQASFO 349  
394 -----EGSCLGRIRPHPTFTGLSGRLRFLKONGLVGIEEQSLW 431  
350 CSAPFI-NDAPRD-----LNTISEGRMAELKC-RTTPMSSVKKWL---- 385

Db 432 GLAELRELDLSRNALRAIKANVFQLPRLQKLYLDRNLIAAFAFGFLGLKALRWLDLSH 491  
Qy 386 -----LPGNCTVLSHASRHRPRISVLANDGTINFS 412  
Db 492 NRLEALPN-SLLAPLGRLYLSLRNNSLRFTT 522

RESULT 32  
US-08-473-089-49  
Sequence 49, Application US/08473089  
Patent No. 6342368  
GENERAL INFORMATION:  
APPLICANT: Mochly-Rosen, Daria  
APPLICANT: Ron, Dorit  
TITLE OF INVENTION: WD-40 - Derived Peptides and Uses  
TITLE OF INVENTION: Thereof  
NUMBER OF SEQUENCES: 265  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Morrison & Foerster  
STREET: 2000 Pennsylvania Avenue, NW  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20006-1812  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/473,089  
FILING DATE: 07-JUN-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: MURASHIGE, KATE H.  
REGISTRATION NUMBER: 29,959  
REFERENCE/DOCKET NUMBER: 2550-0025.22  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 887-1500  
TELEFAX: (202) 887-0763  
INFORMATION FOR SEQ ID NO: 49:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 605 amino acids  
TYPE: amino acid  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
ORIGINAL SOURCE:  
INDIVIDUAL ISOLATE: Insulin-like growth factor binding  
INDIVIDUAL ISOLATE: protein complex, Fig. 32  
US-08-473-089-49

Query Match 9.0%; Score 309; DB 4; Length 605;  
Best Local Similarity 23.6%; Pred. No. 3.1e-20;  
Matches 121; Conservative 69; Mismatches 154; Indels 168; Gaps 16;

42 GPONCPSCVCS-----NOFSKVCTRGSLSEVPGIPSNTR----- 78  
38 GPA-CPACVCSYDDADELS-VFCSSRNLTPLDVGPGTQALWLDGNLSSVPPAFQ 95  
79 -----YINLMENNIQIADTFPHLHHLEVLQGR 108  
96 NLSGLFLNLOGGQGLSLEPQALLGLENLCHLHLERNQLRSALGTFAHTPALASGLSN 155  
109 NSIROIEVGAENGLASLTLEFDNWLTVIPSGAPEYLSKRLRLNRPTEIPSAFN 168  
156 NLSRLDGLFEGGLSMDLNGWNSLAVIPDAAPRGSLRSLVLAGNRLAYLPALFS 215  
169 RYPSLRLDLG-----ELKKL-----EYISGAPEGLFNKLYNL-- 203  
216 GLAELRELDLSRNALRAIKANVFQLPRLQKLYLDRNLIAAFAFGFLGLKALRWLDLSH 275

204 -----GMCNIK-----DMPNLT-----LVGLELEMSGHFFPIRGSFH 239  
276 NRVAAGLLEDPGGLGLRLVLRSLSHNAISLRPTFKDLHFLLESLQLGHNRIQLAERSFE 335  
240 GLSSIKKLWVNSQVSLIERNAPDGLASIVELNAHNLSLPHDLFTPLRYLIVELHLH 299  
336 GLGLEVLTLDHNLQVKAAGFLGTNVAVMNLGNCLENLEPEQVFRGLGKLSLHL-- 393  
300 NPNWCDIDILWAWLWREYIPTNSTCGRCH-----APMHRGRYLVVEVDQASFQ 349  
394 -----EGSCLGRIRPHTFTGLSGLRLFLKDNGLVGBEQSLW 431  
350 CSAPPI-WDAPRD-----LMISEGRMAELKC-RTPPMSSVYWL----- 385  
432 GLABLELDLTSNQLTHPLHRLFOGLGKLEYLLSRNLAEALPADALGPLQAFWLDVSH 491  
386 -----LPGTVLSHSHRPRISVINDGTNFS 412  
492 NRLEALPN-SLLAPLGLRLYLSLRNNSLRFTT 522

RESULT 33  
JS-08-487-072A-49  
; Sequence 49, Application US/08487072A  
; Patent No. 6423684  
; GENERAL INFORMATION:  
; APPLICANT: Mochly-Rosen, Daria  
; APPLICANT: Ren, Dorit  
; TITLE OF INVENTION: WD-40 - Derived Peptides and Uses  
; TITLE OF INVENTION: Thereof  
; NUMBER OF SEQUENCES: 265  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Morrison & Foerster  
; STREET: 2000 Pennsylvania Avenue, NW  
; CITY: Washington  
; STATE: DC  
; COUNTRY: USA  
; ZIP: 20006-1812  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/487,072A  
; FILING DATE: 07-JUN-1995  
; CLASSIFICATION: 514  
; ATTORNEY/AGENT INFORMATION:  
; NAME: MURASHIGE, KATE H.  
; REGISTRATION NUMBER: 29,959  
; REFERENCE/DOCKET NUMBER: 2550-0025.20  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202) 887-1500  
; TELEFAX: (202) 887-0763  
; INFORMATION FOR SEQ ID NO: 49:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 605 amino acids  
; TYPE: amino acid  
; TOPOLOGY: unknown  
; MOLECULE TYPE: protein  
; HYPOTHETICAL: NO  
; ANTI-SENSE: NO  
; ORIGINAL SOURCE:  
; INDIVIDUAL ISOLATE: Insulin-like growth factor binding  
; INDIVIDUAL ISOLATE: protein complex, Fig. 32  
JS-08-487-072A-49

Query Match 9.0%; Score 309; DB 4; Length 605;  
Best Local Similarity 23.6%; Freq. No. 3.1e-20;  
Matches 121; Conservative 69; Mismatches 154; Indels 168; Gaps 16;  
42 GPQNCPSVCSGS-----NQFSKVCTRRGLSEVPQGIPIPSNTR----- 78

38 GPA-CPAACVSYDDADELS-VFCSSRNLTRELPGVGGTQALMDLGNLSVPPPAFQ 95  
79 -----YLNWNNIOMIQADTFRLHLHLLEVQLGR 108  
96 NLSSGLFLNLQGGQLSLEPQALLGLENLCHLERNQLRSALGCTFAHTPALASGLSN 155  
109 NSIRQIVGAFNGLASLNTLELPENMTVIPSAGFYLSKLRLMLRNPIESIPSYAFN 168  
156 NLSRLSDGLFEGIGSLWDLNLGWSLAVLFDAAFRGLASRLRELVLNRLAYLQPALFS 215  
169 RVPSLMELDLG-----ELKKG-----EYISGAFEGLENLYLNL-- 203  
216 GLABRELDLSRNALRAKANVFQPLRLOKLYLDNLTAAPGAFGLKALRWLDLSH 275  
204 -----GMCNIK-----DMPNLT-----LVGLELEMSGHFFPIRGSFH 239  
276 NRVAAGLLEDPGGLGLRLVLRSLSHNAISLRPTFKDLHFLLESLQLGHNRIQLAERSFE 335  
240 GLSSIKKLWVNSQVSLIERNAPDGLASIVELNAHNLSLPHDLFTPLRYLIVELHLH 299  
336 GLGLEVLTLDHNLQVKAAGFLGTNVAVMNLGNCLENLEPEQVFRGLGKLSLHL-- 393  
300 NPNWCDIDILWAWLWREYIPTNSTCGRCH-----APMHRGRYLVVEVDQASFQ 349  
394 -----EGSCLGRIRPHTFTGLSGLRLFLKDNGLVGBEQSLW 431  
350 CSAPPI-WDAPRD-----LMISEGRMAELKC-RTPPMSSVYWL----- 385  
432 GLABLELDLTSNQLTHPLHRLFOGLGKLEYLLSRNLAEALPADALGPLQAFWLDVSH 491  
386 -----LPGTVLSHSHRPRISVINDGTNFS 412  
492 NRLEALPN-SLLAPLGLRLYLSLRNNSLRFTT 522

RESULT 34  
US-08-592-500-2  
; Sequence 2, Application US/08592500  
; Patent No. 6005089  
; GENERAL INFORMATION:  
; APPLICANT: Lanza, Francois  
; APPLICANT: Phillips, David R.  
; APPLICANT: Cazenave, Jean-Pierre  
; TITLE OF INVENTION: Platelet Glycoprotein V Gene and Uses  
; NUMBER OF SEQUENCES: 43  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend Hourie and Crew  
; STREET: 379 Lytton Avenue  
; CITY: Palo Alto  
; STATE: California  
; COUNTRY: US  
; ZIP: 94301  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/592,500  
; FILING DATE:  
; CLASSIFICATION: 536  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/089,455  
; FILING DATE: 09-JUL-1993  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Dow, Karen B.  
; REGISTRATION NUMBER: 29,684  
; REFERENCE/DOCKET NUMBER: 12418-28  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 326-2400  
; TELEFAX: (415) 326-2422  
; INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:  
LENGTH: 560 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
-08-592-500-2

Query Match 8.9%; Score 305.5; DB 3; Length 560;  
Best Local Similarity 27.6%; Pred. No. 5.8e-20;  
Matches 98; Conservative 47; Mismatches 133; Indels 57; Gaps 9;  
66 LSEVPGGI---PSNTRYLNLMENNIMQIADTFRHLHLEVLQLGKNSIRQIEVGAFNGL 122  
182 LTHLPKGLGQAOKLERLLHNSRLVSLDGLNSLALTELQFHRNHSIAPGAFDRL 241  
123 ASLNTLELFDNWLTVIPSGAFYLSKLELRLNPNIESPSYAFNRVPSLMRLDLGELK 182  
242 PNLSSLTLSRNHLAFLPSALFLHSHNTLTLLTFENPLAELPGVLFGMGGLQELWLNRT 300  
183 KLEYISEGAFEGFLNKLKYNLCMCNKKMPNLTPL-----VGLLEE---MSGNHFFPEIR 234  
301 QLTLPAAAFNLSRLRYLGVTL-----SPRLSALPQGAFOGLGELQVLALHNSGLTALP 355  
235 PGSFHGLSSLKLMVMSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVE 294  
356 DGLRLGKLGKLRQVSLRRNRRLRALPRALFRNLSSLESVQLDHNQLETLPDGVFGALPRLTE 415  
295 LHLHNPNCDCDILWLAWLREVI-----PTNSTCCGRCCHAPMHRGRLVVEVDQAS 347  
416 VLLGHNSWRCDCGLGPFGLWLRQHLGLVGGREPP-----RCAGFGAHAGLPLWALPGGD 469  
348 FOCSPAFFINDAPRLNISEGRMAELKCKTTPMSSVKWLLPNTGTVLSHSHRPRIS 402  
470 AECPCP-----RGPPPR-----PAADSSSEAPVHPALA 497

RESULT 35  
3-08-195-006-2  
Sequence 2, Application US/08195006  
Patent No. 6083688  
GENERAL INFORMATION:  
APPLICANT: Lanza, Francois  
APPLICANT: Phillips, David R.  
APPLICANT: Cazenave, Jean-Pierre  
TITLE OF INVENTION: Platelet Glycoprotein V Gene and Uses  
NUMBER OF SEQUENCES: 43  
CORRESPONDENCE ADDRESS:  
ADDRESSER: Townsend and Townsend Kourie and Crew  
CITY: Palo Alto  
STATE: California  
COUNTRY: US  
ZIP: 94301  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/195,006  
FILING DATE: 10-FEB-1994  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/089,455  
FILING DATE: 09-JUL-1993  
ATTORNEY/AGENT INFORMATION:  
NAME: Dow, Karen B.  
REGISTRATION NUMBER: 29,684  
REFERENCE/DOCKET NUMBER: 12418-28  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 326-2400  
TELEFAX: (415) 326-2422  
INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:  
LENGTH: 560 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-195-006-2

Query Match 8.9%; Score 305.5; DB 3; Length 560;  
Best Local Similarity 27.6%; Pred. No. 5.8e-20;  
Matches 98; Conservative 47; Mismatches 153; Indels 57; Gaps 9;  
66 LSEVPGGI---PSNTRYLNLMENNIMQIADTFRHLHLEVLQLGKNSIRQIEVGAFNGL 122  
182 LTHLPKGLGQAOKLERLLHNSRLVSLDGLNSLALTELQFHRNHSIAPGAFDRL 241  
123 ASLNTLELFDNWLTVIPSGAFYLSKLELRLNPNIESPSYAFNRVPSLMRLDLGELK 182  
242 PNLSSLTLSRNHLAFLPSALFLHSHNTLTLLTFENPLAELPGVLFGMGGLQELWLNRT 300  
183 KLEYISEGAFEGFLNKLKYNLCMCNKKMPNLTPL-----VGLLEE---MSGNHFFPEIR 234  
301 QLTLPAAAFNLSRLRYLGVTL-----SPRLSALPQGAFOGLGELQVLALHNSGLTALP 355  
235 PGSFHGLSSLKLMVMSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVE 294  
356 DGLRLGKLGKLRQVSLRRNRRLRALPRALFRNLSSLESVQLDHNQLETLPDGVFGALPRLTE 415  
295 LHLHNPNCDCDILWLAWLREVI-----PTNSTCCGRCCHAPMHRGRLVVEVDQAS 347  
416 VLLGHNSWRCDCGLGPFGLWLRQHLGLVGGREPP-----RCAGFGAHAGLPLWALPGGD 469  
348 FOCSPAFFINDAPRLNISEGRMAELKCKTTPMSSVKWLLPNTGTVLSHSHRPRIS 402  
470 AECPCP-----RGPPPR-----PAADSSSEAPVHPALA 497

RESULT 36  
US-09-063-950-4  
Sequence 4, Application US/09063950C  
Patent No. 6235095  
GENERAL INFORMATION:  
APPLICANT: Holtzman, Douglas A.  
TITLE OF INVENTION: NOVEL LRSG PROTEIN AND NUCLEIC ACID MOLECULES AND USES  
FILE REFERENCE: MEI-019  
CURRENT APPLICATION NUMBER: US/09/063,950C  
CURRENT FILING DATE: 1998-04-21  
NUMBER OF SEQ ID NOS: 9  
SOFTWARE: Patent in Ver. 2.0  
SEQ ID NO 4  
LENGTH: 560  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-063-950-4

Query Match 8.9%; Score 305.5; DB 3; Length 560;  
Best Local Similarity 27.6%; Pred. No. 5.8e-20;  
Matches 98; Conservative 47; Mismatches 153; Indels 57; Gaps 9;  
66 LSEVPGGI---PSNTRYLNLMENNIMQIADTFRHLHLEVLQLGKNSIRQIEVGAFNGL 122  
182 LTHLPKGLGQAOKLERLLHNSRLVSLDGLNSLALTELQFHRNHSIAPGAFDRL 241  
123 ASLNTLELFDNWLTVIPSGAFYLSKLELRLNPNIESPSYAFNRVPSLMRLDLGELK 182  
242 PNLSSLTLSRNHLAFLPSALFLHSHNTLTLLTFENPLAELPGVLFGMGGLQELWLNRT 300  
183 KLEYISEGAFEGFLNKLKYNLCMCNKKMPNLTPL-----VGLLEE---MSGNHFFPEIR 234  
301 QLTLPAAAFNLSRLRYLGVTL-----SPRLSALPQGAFOGLGELQVLALHNSGLTALP 355  
235 PGSFHGLSSLKLMVMSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVE 294

Db 356 DGLRLGLKROVSRNRRLRALPRALFRNLSSLESVOLDHQLTLPDGVFGALPRLTE 415  
 QY 295 LHLHNPNCDDILWLAWLREYI-----PTNSTCCGCHAPMGRVLYVEVDQAS 347  
 Db 416 VLLGHSNRCCDGLGFLGRLQHLGLVGGEPP-----RCAGGGAHAGLPLWALPGGD 469  
 QY 348 FQCSAPFINDAPRDNLINSEGRMAELKCRTPPMSSVKWLLPNGTVLSHASRHPRI 402  
 Db 470 AECPGF-----RGPPPR-----PAADSSSEAPVHPALA 497

RESULT 37  
 PCT-US94-07644A-2  
 ; Sequence 2, Application PC/TUS9407644A  
 ; GENERAL INFORMATION:  
 ; APPLICANT: COR Therapeutics, Inc.  
 ; TITLE OF INVENTION: Platelet Glycoprotein V Gene and Uses  
 ; NUMBER OF SEQUENCES: 43  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSES: Townsend and Townsend Kourie and Crew  
 ; STREET: 379 Lytton Avenue  
 ; CITY: Palo Alto  
 ; STATE: California  
 ; COUNTRY: US  
 ; ZIP: 94301  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patettin Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: PCT/US94/07644A  
 ; CLASSIFICATION:  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Dow, Karen B.  
 ; REGISTRATION NUMBER: 29,684  
 ; REFERENCE/DOCKET NUMBER: 012419-003000  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (415) 326-2400  
 ; TELEFAX: (415) 326-2422  
 ; INFORMATION FOR SEQ ID NO: 2:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 560 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; PCT-US94-07644A-2

Query Match 8.9%; Score 305.5; DB 5; Length 560;  
 Best Local Similarity 27.6%; Pred. No. 5.8e-20;  
 Matches 98; Conservative 47; Mismatches 153; Indels 57; Gaps 9;

QY 66 LSEVPGGI---PSNTRYLNLMENNIOQTADTFRLHLEVLQGRNSIRQIEVGAFNGL 122  
 Db 182 LTHLPKGLGAQAKLERLLHNSRLVSLDGLSLGALTELQPHRNHRSIAPGAFDL 241  
 QY 123 ASLNTLELFDNWLTVIPSGAFEYLSKLRLMRNPSTPSVAFNRVPSLMDLDELK 182  
 Db 242 PNLSSLTLSRNHLAFLPSALFLSHSNLTLLTFENPLAELFGVLFGEMGGLQELWLR-T 300  
 QY 183 KLEYISEGAFGLFKVLYNLGMCNKKMPNLTPL-----VGLSELE---MSGNHPEIR 234  
 Db 301 QLRTPAAFRNLSELRVLYVTL-----SPRLSALPQAGCGGELQVLAHNSGITALP 355  
 QY 235 PGSHFGLSLKKLVNMSQVSLIRNAPDGLASVLELNLAHNLSSLPDLFTPLRYLVE 294  
 Db 356 DGLLAGLGLKRVSLRRRLRALPRALFRNLSSLESVOLDHQLTLPDGVFGALPRLTE 415  
 QY 295 LHLHNPNCDDILWLAWLREYI-----PTNSTCCGCHAPMGRVLYVEVDQAS 347  
 Db 416 VLLGHSNRCCDGLGFLGRLQHLGLVGGEPP-----RCAGGGAHAGLPLWALPGGD 469  
 QY 348 FQCSAPFINDAPRDNLINSEGRMAELKCRTPPMSSVKWLLPNGTVLSHASRHPRI 402

Db 470 AECPGF-----RGPPPR-----PAADSSSEAPVHPALA 497

RESULT 38  
 US-08-442-063A-45  
 ; Sequence 45, Application US/08442063A  
 ; Patent No. 5705609  
 ; GENERAL INFORMATION:  
 ; APPLICANT: RUOSLAHTI, ERKKI I.  
 ; APPLICANT: PIERSCHBACHER, MICHAEL D.  
 ; APPLICANT: CARDENAS, JOSE  
 ; APPLICANT: CRAIG, WILLIAM  
 ; APPLICANT: MULLEN, DANIEL G.  
 ; TITLE OF INVENTION: DECORIN FRAGMENTS AND METHODS OF  
 ; TITLE OF INVENTION: INHIBITING CELL REGULATORY FACTORS  
 ; NUMBER OF SEQUENCES: 62  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSES: CAMPBELL AND FLORES  
 ; STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
 ; CITY: SAN DIEGO  
 ; STATE: CALIFORNIA  
 ; COUNTRY: UNITED STATES  
 ; ZIP: 92122  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patettin Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/442,063A  
 ; FILING DATE: 16-MAY-1995  
 ; CLASSIFICATION: 514  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 07/865,652  
 ; FILING DATE: 03-APR-1992  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: CAMPBELL, CATHRYN A.  
 ; REGISTRATION NUMBER: 31,815  
 ; REFERENCE/DOCKET NUMBER: P-LA 1454  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 619-535-9001  
 ; TELEFAX: 619-535-8949  
 ; INFORMATION FOR SEQ ID NO: 45:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 282 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; US-08-442-063A-45

Query Match 8.8%; Score 303.5; DB 1; Length 282;  
 Best Local Similarity 31.9%; Pred. No. 2.9e-20;  
 Matches 84; Conservative 45; Mismatches 123; Indels 11; Gaps 7;

QY 40 SAGPONCVCSNQPCKVCTGRLSEVPGGIPSTRYLNLMENNIOQTADTFRLH 99  
 Db 21 SLGPV-CFPRQC--HLRVVQCSDGLDKVPRDLFPDPTLLDQNNKITEIKGDFKNLK 77  
 QY 100 HLEVLQGRNSIRQIEVGAFNGLASLNTLELFDNWLTVIPSGAFEYLSK-LRSLWLNRP 158  
 Db 78 NLHALILVNNKISKVSPGATPPLVKLERLYLSKNQAKELP-----EKMPKTLQSLRAHENE 133  
 QY 159 IESTPSVAFNRVPSLMDLIDG-ELKLEYISEGAFGLFKVLYNLGMCNKKMPNLTPL 217  
 Db 134 ITRKRVTFNGLNQIVIELGTNPLFKSSGIEGAFQGMKKLSYIRIADTNITIPQGLP- 192  
 QY 218 VGLSELEMSGNHPEIRPGSHFGLSLKKLVNMSQVSLIRNAPDGLASVLELNLAHNN 277  
 Db 193 PSULHELHLDGNNKISVDAASLKGILNLAHLGLSFNSISAVDNGSLANTPHRLHLDNNK 252  
 QY 278 LSSLPHDLFTPLRYLYVELHHLHN 300

253 LTRVPGGL-AEHKVIQVYLHN 274

RESULT 39  
US-08-442-063A-48  
Sequence 48, Application US/08442063A  
Patent No. 5705609  
GENERAL INFORMATION:  
APPLICANT: RUOSLAHTI, ERKKI I.  
APPLICANT: PIERSCBACHER, MICHAEL D.  
APPLICANT: CARDENAS, JOSE  
APPLICANT: CRAIG, WILLIAM  
APPLICANT: MULLEN, DANIEL G.  
TITLE OF INVENTION: DECORIN FRAGMENTS AND METHODS OF  
TITLE OF INVENTION: INHIBITING CELL REGULATORY FACTORS  
NUMBER OF SEQUENCES: 62  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CAMPBELL AND FLORES  
STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
CITY: SAN DIEGO  
STATE: CALIFORNIA  
COUNTRY: UNITED STATES  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/442,063A  
FILING DATE: 16-MAY-1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/865,652  
FILING DATE: 03-APR-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: CAMPBELL, CATHRYN A.  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-LA 1454  
TELEPHONE: 619-535-8949  
TELEFAX: 619-535-8949  
INFORMATION FOR SEQ ID NO: 48:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 307 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-442-063A-48

Query Match 8.8%; Score 303.5; DB 1; Length 307;  
Best local Similarity 31.9%; Pred. No. 3.4e-20;  
Matches 84; Conservative 45; Mismatches 123; Indels 11; Gaps 7;  
40 SAGFQNCPSVCSNPFQSKVCTRRGLSEVPQIPSTRYLNMENNIMQIQADTFRLH 99  
21 SLGEV-CPFRQC--HLRVVQCSDLGLDKVPKDLPPDTLLDQNNKITEIKDGFKNLK 77  
100 HLEVLQIGRNSIRQIEVGAFNGLASLNTLELFDNMLTVIPSGAFYLSK-LRELWLRNP 158  
78 NLHALLLVNNKISKVSPGATPLVKLERLYLSKQQLKEIP-----EKMPTLQELRAHENS 133  
159 IESIPSVAFNRVPSLMRLDGL-BLKKEVITSEGAPEGLFNKLYNLGMCNIDKMPNLTPL 217  
134 ITRKRVTFNGLNQMVIELGTNPLKSSGIENGAFQGMKKLSYIRIADTNITSIPQGLP- 192  
218 VGLLEMSGNHPEIRPGSFHGLSSIKLWVNSQVSLIERNAFGLASLVELNLHN 277  
193 PSLTEHLDGNGKSRVDAASLKGNNLAKLGLSFNSISAVDNGSLANTPHLRELHLDNKK 252  
278 LSSLPDLFTPLRYLVELHLHN 300  
253 LTRVPGGL-AEHKVIQVYLHN 274

253 LTRVPGGL-AEHKVIQVYLHN 274

RESULT 40  
US-08-442-063A-27  
Sequence 27, Application US/08442063A  
Patent No. 5705609  
GENERAL INFORMATION:  
APPLICANT: RUOSLAHTI, ERKKI I.  
APPLICANT: PIERSCBACHER, MICHAEL D.  
APPLICANT: CARDENAS, JOSE  
APPLICANT: CRAIG, WILLIAM  
APPLICANT: MULLEN, DANIEL G.  
TITLE OF INVENTION: DECORIN FRAGMENTS AND METHODS OF  
TITLE OF INVENTION: INHIBITING CELL REGULATORY FACTORS  
NUMBER OF SEQUENCES: 62  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CAMPBELL AND FLORES  
STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
CITY: SAN DIEGO  
STATE: CALIFORNIA  
COUNTRY: UNITED STATES  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/442,063A  
FILING DATE: 16-MAY-1995  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/865,652  
FILING DATE: 03-APR-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: CAMPBELL, CATHRYN A.  
REGISTRATION NUMBER: 31,815  
REFERENCE/DOCKET NUMBER: P-LA 1454  
TELEPHONE: 619-535-9001  
TELEFAX: 619-535-8949  
INFORMATION FOR SEQ ID NO: 27:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 333 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-442-063A-27

Query Match 8.8%; Score 303.5; DB 1; Length 333;  
Best local Similarity 31.9%; Pred. No. 3.9e-20;  
Matches 84; Conservative 45; Mismatches 123; Indels 11; Gaps 7;  
40 SAGFQNCPSVCSNPFQSKVCTRRGLSEVPQIPSTRYLNMENNIMQIQADTFRLH 99  
21 SLGEV-CPFRQC--HLRVVQCSDLGLDKVPKDLPPDTLLDQNNKITEIKDGFKNLK 77  
100 HLEVLQIGRNSIRQIEVGAFNGLASLNTLELFDNMLTVIPSGAFYLSK-LRELWLRNP 158  
78 NLHALLLVNNKISKVSPGATPLVKLERLYLSKQQLKEIP-----EKMPTLQELRAHENS 133  
159 IESIPSVAFNRVPSLMRLDGL-BLKKEVITSEGAPEGLFNKLYNLGMCNIDKMPNLTPL 217  
134 ITRKRVTFNGLNQMVIELGTNPLKSSGIENGAFQGMKKLSYIRIADTNITSIPQGLP- 192  
218 VGLLEMSGNHPEIRPGSFHGLSSIKLWVNSQVSLIERNAFGLASLVELNLHN 277  
193 PSLTEHLDGNGKSRVDAASLKGNNLAKLGLSFNSISAVDNGSLANTPHLRELHLDNKK 252  
278 LSSLPDLFTPLRYLVELHLHN 300  
253 LTRVPGGL-AEHKVIQVYLHN 274

RESULT 43  
PCT-US95-08542-2

RESULT 42  
IS-08-619-916-2

Sequence 2, Application PC/TUS9508542  
GENERAL INFORMATION:  
APPLICANT: La Jolla Cancer Research Foundation  
TITLE OF INVENTION: Processes for the Purification of  
TITLE OF INVENTION: Human  
TITLE OF INVENTION: Recombinant Decorin and the Detection of Guanidinium  
TITLE OF INVENTION: Ions  
NUMBER OF SEQUENCES: 2  
CORRESPONDENCE ADDRESS:  
ADDRESS: Campbell and Flores  
CITY: San Diego  
STATE: California  
COUNTRY: USA  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/08542  
FILING DATE: 07-JUL-1995  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Perkins, Susan M.  
REGISTRATION NUMBER: 36,405  
REFERENCE/DOCKET NUMBER: FP-LA 1751  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 535-9001  
TELEFAX: (619) 535-8949  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 342 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
T-US95-08542-2

Query Match 8.8%; Score 303.5; DB 5; Length 342;  
Best Local Similarity 31.9%; Pred. No. 4e-20;  
Matches 84; Conservative 45; Mismatches 123; Indels 11; Gaps 7;  
40 SAGPQNCPSVCSNQFSCVCTRGSEVPGQIPSNTRYLNLMENNIMQIADTFRLH 99  
33 SLGPV-CFPRQC--HLRVQCSDLGLDKVPKLPDPDTLLDLQNNKITEIKDGFKNLK 89  
100 HLEVLQSGNSIRQIEVGAENGLASLNTLELFDNWLTVIPSGAFEYLSK-LRELWLRNP 158  
90 NLHALILVNNKISKVSPGAPTLVKLERLYLSKNQKELP-----EKMPKTLQELRAHENE 145  
159 IBSIPSYAFNRVPSLRMLDLG-ELKLEIYISEGAFGLFNLKYLNLGMCNKKMPNLTPL 217  
146 ITKVRKVTFFNGLNQWIVIELGTNPKSSGIENGAFQGMKLSYIRIADTWTITSIPQGLP- 204  
218 VGLELEMSGNHFPPIRPGSPHGLSSLLKLVWMSQVSLIERNAFDGLASIVELNLAHNN 277  
205 PSLTELHLDGNKISRVDAAKLGNNIAKLGLSPNSISAVDNGSLANTPHRLHLDNNK 264  
278 LSSLPHDLFTPLRYLVELLHHN 300  
265 LTRVPGGL-AEHKVIQVYLHNN 286

RESULT 44  
3-08-303-238-4  
Sequence 4, Application US/08303238  
Patent No. 5654270  
GENERAL INFORMATION:  
APPLICANT: RUOSLAHTI, ERKKI I.  
APPLICANT: LONGAKER, MICHAEL T.  
APPLICANT: WHITEY, DAVID J.  
APPLICANT: HARPER, JOHN R.

APPLICANT: PIERSCHBACHER, MICHAEL D.  
APPLICANT: BORDER, WAYNE A.  
TITLE OF INVENTION: INHIBITORS OF CELL REGULATORY FACTORS  
TITLE OF INVENTION: AND METHODS FOR PREVENTING OR REDUCING SCARRING  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESS: CAMPBELL AND FLORES  
STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
CITY: SAN DIEGO  
STATE: CALIFORNIA  
COUNTRY: UNITED STATES  
ZIP: 92122  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/303,238  
FILING DATE:  
CLASSIFICATION: 514  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 07/978,931  
FILING DATE: 17-NOV-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: KOSKI, ANTOINETTE F.  
REGISTRATION NUMBER: 34,202  
REFERENCE/DOCKET NUMBER: P-LA 9453  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619-535-9001  
TELEFAX: 619-535-8949  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 359 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-303-238-4  
Query Match 8.8%; Score 303.5; DB 1; Length 359;  
Best Local Similarity 31.9%; Pred. No. 4.4e-20;  
Matches 84; Conservative 45; Mismatches 123; Indels 11; Gaps 7;  
40 SAGPQNCPSVCSNQFSCVCTRGSEVPGQIPSNTRYLNLMENNIMQIADTFRLH 99  
49 SLGPV-CFPRQC--HLRVQCSDLGLDKVPKLPDPDTLLDLQNNKITEIKDGFKNLK 105  
100 HLEVLQSGNSIRQIEVGAENGLASLNTLELFDNWLTVIPSGAFEYLSK-LRELWLRNP 158  
106 NLHALILVNNKISKVSPGAPTLVKLERLYLSKNQKELP-----EKMPKTLQELRAHENE 161  
159 IBSIPSYAFNRVPSLRMLDLG-ELKLEIYISEGAFGLFNLKYLNLGMCNKKMPNLTPL 217  
162 ITKVRKVTFFNGLNQWIVIELGTNPKSSGIENGAFQGMKLSYIRIADTWTITSIPQGLP- 220  
218 VGLELEMSGNHFPPIRPGSPHGLSSLLKLVWMSQVSLIERNAFDGLASIVELNLAHNN 277  
221 PSLTELHLDGNKISRVDAAKLGNNIAKLGLSPNSISAVDNGSLANTPHRLHLDNNK 280  
278 LSSLPHDLFTPLRYLVELLHHN 300  
281 LTRVPGGL-AEHKVIQVYLHNN 302  
RESULT 45  
US-08-458-834-4  
Sequence 4, Application US/08458834  
Patent No. 6277812  
GENERAL INFORMATION:  
APPLICANT: RUOSLAHTI, ERKKI I.  
APPLICANT: LONGAKER, MICHAEL T.  
APPLICANT: WHITEY, DAVID J.  
APPLICANT: HARPER, JOHN R.

APPLICANT: PIERCEBACHER, MICHAEL D.  
 APPLICANT: BORDER, WAYNE A.  
 TITLE OF INVENTION: INHIBITORS OF CELL REGULATORY FACTORS  
 TITLE OF INVENTION: AND METHODS FOR PREVENTING OR REDUCING SCARRING  
 NUMBER OF SEQUENCES: 8  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: CAMPELL AND FLORES  
 STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700  
 CITY: SAN DIEGO  
 STATE: CALIFORNIA  
 COUNTRY: UNITED STATES  
 ZIP: 92122

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/458,834  
 FILING DATE:  
 CLASSIFICATION: 514  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/978,931  
 FILING DATE: 17-NOV-1992  
 ATTORNEY/AGENT INFORMATION:  
 NAME: KOSKI, ANTOINETTE F.  
 REGISTRATION NUMBER: 34,202  
 REFERENCE/DOCKET NUMBER: P-LA 9453  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 619-535-9001  
 TELEFAX: 619-535-8949

INFORMATION FOR SEQ ID NO: 4:  
 LENGTH: 359 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 IS-08-458-834-4

Query Match 8.8%; Score 303.5; DB 3; Length 359;  
 Best Local Similarity 31.9%; Pred. No. 4.4e-20;  
 Matches 84; Conservative 45; Mismatches 123; Indels 11; Gaps 7;

40 SAGPQNCVSCSNQPSKVVCTRRGLSEVPGQIPSNTRYLMNENNIQIADIPRHLE 99  
 49 SLGPV-CFERQC--HLRVQCSDGLDKVPKDPDFTLLDQNNKITEIKGDFENLK 105  
 100 HLEVLQGRNSIRQIEVGAFNGLASINTLELFDNWLTVIPSGAFYLSK-LRELWLRNP 158  
 106 NEHALILVNNKISKVSPGAPTLVKLERLYLSKNQKELP-----EQPKTLQELRAHENS 161  
 159 IESTPSVAFNRVPSLMRLDLG-ELKKLEYISGAFGLFNKLYLNIGMCIKDMNLTPL 217  
 162 ITKRVKTENGQNMIVIELGTNPLKSSGIENGAFQGMKKLSYIRIADTNITSIPQGLP- 220  
 218 VGLELENSGHHPEIRPGSPHGLSSKKLVNNSQVSLIERNAPFGLASVLELMHANN 277  
 221 PSLTELHLDGKISRVDAAISLKLNNLAKLGLFNSISAVDNGSLANTPHRELHLDNNK 280  
 278 ISSLPDHLFTPLRVLYLHLHNN 300  
 281 LTRVPGGL-AEHKTIQVYVILHN 302

RESULT 46  
 US-09-170-496D-264  
 ; Sequence 264, Application US/09170496D  
 ; Patent No. 6555339  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Behan, Dominic P.  
 ; APPLICANT: Chalmers, Derek T.  
 ; APPLICANT: Liaw, Chen W.  
 ; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein-

; TITLE OF INVENTION: Receptors  
 ; FILE REFERENCE: AREN-0040  
 ; CURRENT APPLICATION NUMBER: US/09/170,496D  
 ; CURRENT FILING DATE: 1998-10-13  
 ; NUMBER OF SEQ ID NOS: 294  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 284  
 ; LENGTH: 907  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-170-496D-264

Query Match 8.8%; Score 303.5; DB 4; Length 907;  
 Best Local Similarity 26.1%; Pred. No. 2e-19;  
 Matches 111; Conservative 60; Mismatches 156; Indels 99; Gaps 10;

22 VYLTAQWILCAIAAASAGP--QNCPSVCSC---SNQFSKVCTRRGLSEVPGQIPSN 76  
 8 VLLSLPVLQLATGSSPRSGVLLRGCPHCHCEPDGRMLLRVDCSLGLSELPSNLV 67  
 77 TRYLNLMENNIQ-----MIQADTF 96  
 68 TSYLDLSMNNISQLLPPLPSLFLLELRAGNALTYPKGAPTGLYSLKVLMLQNNQR 127  
 97 H-----LHLEVLQGRNSIRQIEVGAFNGLASINTLELFDNWLTVIPSGAFYLSK 148  
 128 HVPTALQNLRLSLQSLRLDANHSYVPPSCFSLHSLRLHLLDDNALTEIPVQAFESISA 187  
 149 LRELWLRNPDIPIPSYAFNRVPSLMRLDLGELKKLEYISGAFGLFNKLYLNIGMCI 208  
 188 LOAMTLANKIHHPDYAFGNLSSVLVHLHN-NRIHSLGKKCFGLHSLLETLDLNNYL 246  
 209 KDMFN-LTPLVGLLEEMSGNHPEIRPGSPHGLSSKKLVNNSQVSLIERNAPF--- 263  
 247 DEPTAIRTLSNLKELGPHSNIRSIPKAFVGNPSLITIHFYDNPFIQVGRSAFOHLE 306  
 264 -----GLASLVELNLAHNNLSLPHDLFTPLRVLYLHLHNNPNC 304  
 307 LRTITLNGASQITEFPDPLTGTANLESITLTGAQISSLPQVCNQLPNLQVLDLSYN- 362  
 305 DCDILMLAWLREYIPTNSCCORCHAPMHMRGRLVEVDQASFOCSAPPIMDAPRLMI 364  
 363 -----LLEDLRSFVC--QKQKIDLRHNEIVEIKVDITFQ-----QLLSRLSLNL 405  
 365 SEGRMA 370  
 406 ANKIA 411

RESULT 47  
 US-09-170-496D-278  
 ; Sequence 278, Application US/09170496D  
 ; Patent No. 6555339  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Behan, Dominic P.  
 ; APPLICANT: Chalmers, Derek T.  
 ; APPLICANT: Liaw, Chen W.  
 ; TITLE OF INVENTION: No. 6555339-Endogenous, Constitutively Activated Human G Protein  
 ; TITLE OF INVENTION: Receptors  
 ; FILE REFERENCE: AREN-0040  
 ; CURRENT APPLICATION NUMBER: US/09/170,496D  
 ; CURRENT FILING DATE: 1998-10-13  
 ; NUMBER OF SEQ ID NOS: 294  
 ; SOFTWARE: PatentIn version 3.1  
 ; SEQ ID NO 278  
 ; LENGTH: 907  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-09-170-496D-278

Query Match 8.8%; Score 303.5; DB 4; Length 907;  
 Best Local Similarity 26.1%; Pred. No. 2e-19;  
 Matches 111; Conservative 60; Mismatches 156; Indels 99; Gaps 10;







Prior APPLICATION NUMBER: 60/090429  
Prior FILING DATE: 1998-06-24  
Prior APPLICATION NUMBER: 60/090431  
Prior FILING DATE: 1998-06-24  
Prior APPLICATION NUMBER: 60/090435  
Prior FILING DATE: 1998-06-24  
Prior APPLICATION NUMBER: 60/090444  
Prior FILING DATE: 1998-06-24  
Prior APPLICATION NUMBER: 60/090445  
Prior FILING DATE: 1998-06-24  
Prior APPLICATION NUMBER: 60/090472  
Prior FILING DATE: 1998-06-24  
Prior APPLICATION NUMBER: 60/090535  
Prior FILING DATE: 1998-06-24  
Prior APPLICATION NUMBER: 60/090540  
Prior FILING DATE: 1998-06-24  
Prior APPLICATION NUMBER: 60/090542  
Prior FILING DATE: 1998-06-24  
Prior APPLICATION NUMBER: 60/090557  
Prior FILING DATE: 1998-06-24  
Prior APPLICATION NUMBER: 60/090676  
Prior FILING DATE: 1998-06-25  
Prior APPLICATION NUMBER: 60/090678  
Prior FILING DATE: 1998-06-25  
Prior APPLICATION NUMBER: 60/090690  
Prior FILING DATE: 1998-06-25  
Prior APPLICATION NUMBER: 60/090694  
Prior FILING DATE: 1998-06-25  
Prior APPLICATION NUMBER: 60/090695  
Prior FILING DATE: 1998-06-25  
Prior APPLICATION NUMBER: 60/090696  
Prior FILING DATE: 1998-06-25  
Prior APPLICATION NUMBER: 60/090862  
Prior FILING DATE: 1998-08-26  
Prior APPLICATION NUMBER: 60/090863  
Prior FILING DATE: 1998-08-26  
Prior APPLICATION NUMBER: 60/091360  
Prior FILING DATE: 1998-07-01  
Prior APPLICATION NUMBER: 60/091478  
Prior FILING DATE: 1998-07-02  
Prior APPLICATION NUMBER: 60/091544  
Prior FILING DATE: 1998-07-02  
Prior APPLICATION NUMBER: 60/091519  
Prior FILING DATE: 1998-07-02  
Prior APPLICATION NUMBER: 60/091626  
Prior FILING DATE: 1998-07-02  
Prior APPLICATION NUMBER: 60/091633  
Prior FILING DATE: 1998-07-02  
Prior APPLICATION NUMBER: 60/091978  
Prior FILING DATE: 1998-07-07  
Prior APPLICATION NUMBER: 60/091982  
Prior FILING DATE: 1998-07-07  
Prior APPLICATION NUMBER: 60/092182  
Prior FILING DATE: 1998-07-09

Query Match 8.2%; Score 280.5; DB 4; Length 522;  
Best Local Similarity 23.2%; Pred. No. 1.2e-17;  
Matches 108; Conservative 72; Mismatches 163; Indels 123; Gaps 17;  
30 ILC--AAATAAASAGPCPCSCNCFKVVCTRGISEVPOGIPS-----NTRYLNLM 83  
21 VLCLGACFOMLPAPSPGQPCRCRGL--LYCEALNLTAPHNESGLGLSLRYNSLS 78  
84 E-----NNIQMIQADTFRHLHLHLEVLQLGNSIRQIEVGAFNGLAS 124  
79 ELRAGQFTGLMQLTWLYLDHNCVQGDFAQKLRVRVKELTSSNQITQLPNTTFRMPN 138  
125 INTLELFDNLTVPISGAFYLSKRELWLNNIESIPSYAFNRVPSLWELDLGELKKL 184  
139 LRSVDLSYKLOALAPDLFHGLRKLTLTLMANAIQFVPRIFODCRSLKFLDIG-YNOL 197  
185 EYISCAFEGLFNKLYLNLGMCNIKMDENLTPVLGLBELEMSGNHNHFFRPGSFHGL--- 241

Db 198 KSLARNSPAGLEKLTETLHLEHNDL-----VKVNFHFPRLI--SLHSLCLR 241  
Qy 242 -----SSLAKKLM-----VWNSQVSLIERNAPDGLASIVELNLAHNNLSLPHDLFT 287  
Db 242 RKKVAIVSSLDWVWNLKMDLUSGNEIEYMEPHVPEVPHLOSLOLDSNRLTYIEPRILN 301  
Qy 288 PLRYLVELHHRPNWNCDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYLYVEVDQAS 347  
Db 302 SWKSLTSTITLGNLMDCGRNVCALASLSNF-----QGRY-----DGN 339  
Qy 348 FOCSSAP-----FMDAPRDLNISG-----RMAELKCR-----PMSVVKWL----- 385  
Db 340 LQASPEYAGQEDVLDVAVYAPHLCDGAEPTSGHLISAVTNRSDLGPPASSATTLADGGE 399  
Qy 386 -----LPGNYLSHASRHPRIISVINDGT--INFESHVLL 416  
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Job time : 29 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

M protein - protein search, using sw model

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initial DB seq length: 0

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Cost-processing: Minimum Match 0%

Maximum Match 100%

Listing first 150 summaries

Database : Published Applications AA: \*

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18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.rep:

Precedent

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

result No.	Score	%		Length	DB	ID	Description
		Match	Query				
SUMMARIES							
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2	3440	100.0	653	9	US-09-989-723-229		Sequence 229, App
3	3440	100.0	653	9	US-09-989-723-229		Sequence 229, App
4	3440	100.0	653	9	US-09-989-729-229		Sequence 229, App
5	3440	100.0	653	9	US-09-989-729-229		Sequence 229, App
6	3440	100.0	653	10	US-09-989-731-229		Sequence 229, App
7	3440	100.0	653	10	US-09-989-732-229		Sequence 229, App
8	3440	100.0	653	10	US-09-991-073-229		Sequence 229, App
9	3440	100.0	653	10	US-09-990-442-229		Sequence 229, App
10	3440	100.0	653	10	US-09-993-163-229		Sequence 229, App
11	3440	100.0	653	10	US-09-993-604-229		Sequence 229, App
12	3440	100.0	653	10	US-09-990-456-229		Sequence 229, App
13	3440	100.0	653	10	US-09-989-721-229		Sequence 229, App
14	3440	100.0	653	10	US-09-993-598-229		Sequence 229, App
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16	3440	100.0	653	10	US-09-989-735-229		Sequence 229, App

89 3440 100.0 653 12 US-10-145-876-438 Sequence 438, App  
 90 3440 100.0 653 12 US-10-145-959-438 Sequence 438, App  
 91 3440 100.0 653 12 US-10-146-724-438 Sequence 438, App  
 92 3440 100.0 653 12 US-10-146-725-438 Sequence 438, App  
 93 3440 100.0 653 12 US-10-146-725-438 Sequence 438, App  
 94 3440 100.0 653 12 US-10-147-495-438 Sequence 438, App  
 95 3440 100.0 653 12 US-10-147-501-438 Sequence 438, App  
 96 3440 100.0 653 12 US-10-147-504-438 Sequence 438, App  
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## ALIGNMENTS

## RESULT 1

US-09-989-722-229  
 : Sequence 229, Application US/09989722  
 : Patent No. US20020072067A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Desnovers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrata, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kljavin, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 FILE OF INVENTION: P2730PLC63  
 CURRENT APPLICATION NUMBER: US/09/989,722  
 PRIOR FILING DATE: 2001-11-19  
 PRIOR APPLICATION NUMBER: 60/049787  
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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 9; Length 653;

Best Local Similarity 100.0%; Pred. No. 1.2e-293;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy	121	GLASLNTLELFDNWLTVIPSGAFEYLSKLRLWLNNPIESIPSYAFNRVPSLMDLGE	180
Db	121	GLASLNTLELFDNWLTVIPSGAFEYLSKLRLWLNNPIESIPSYAFNRVPSLMDLGE	180
Qy	181	LKLEVISGAFEGFLFNLYLNMCMNIIKMDNLPVLCLERLEMSGNHPPIRPGCSFHG	240
Db	181	LKLEVISGAFEGFLFNLYLNMCMNIIKMDNLPVLCLERLEMSGNHPPIRPGCSFHG	240
Qy	241	LSSLKLLWVNSQVSLIERNAPDGLASLVELALNNTSSLPHDLFTPLRYLVELHLHN	300

241 LSSLKCLWVNSQVSLIERNADGLASLVELNLAHNNVSSLPHDLFTPLRYLVELHLHN 300  
 301 PWNCDILMLAWLRYIITNSTCCGRCHAPMHMRGRVLYVEDQASQCSAPFIMDAPR 360  
 301 PWNCDILMLAWLRYIITNSTCCGRCHAPMHMRGRVLYVEDQASQCSAPFIMDAPR 360  
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RESULT 2

IS-09-989-723-229

Sequence 229, Application US/09989723

Patent No. US20020072092A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

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APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

FILE REFERENCE: P2730P1062

CURRENT APPLICATION NUMBER: US/09/989,723

PRIOR FILING DATE: 2001-11-19

PRIOR FILING DATE: 1997-06-16

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 DB 1 MKLLQVTVHHHTWNAILLPPVYLTQAVMLCAATAAASAGPQNCPCSVCSNPSKV 60  
 QY 61 CTRGGLSEVPQGIPTNRYLNLMMNNIOMIADTFRLHLEVLQJLGRNSIRQIEVGA 120  
 DB 61 CTRGGLSEVPQGIPTNRYLNLMMNNIOMIADTFRLHLEVLQJLGRNSIRQIEVGA 120  
 QY 121 GLASLNTLELFDNMLTVIPSGAFEYLSKRLRLWLNPNPIESPSYAFNRPVSLMDLGE 180  
 DB 121 GLASLNTLELFDNMLTVIPSGAFEYLSKRLRLWLNPNPIESPSYAFNRPVSLMDLGE 180  
 QY 181 LKXLEYISEGAFEGLENKLYNLGMNCNIKDMNPLPLVGLSELEMSGNHFFRIRPGS 240  
 DB 181 LKXLEYISEGAFEGLENKLYNLGMNCNIKDMNPLPLVGLSELEMSGNHFFRIRPGS 240  
 QY 241 LSSLLKLVNNSQVSLIERNAFDGLASLVELNLAHNLSLPHDLFTPLRYLVELHLHN 300  
 DB 241 LSSLLKLVNNSQVSLIERNAFDGLASLVELNLAHNLSLPHDLFTPLRYLVELHLHN 300  
 QY 301 PWNCCDILNLAWLREYIPTNSTCCGRCHAPMWRGRYLVVEVDQASFOCSAPFIMDAPR 360  
 DB 301 PWNCCDILNLAWLREYIPTNSTCCGRCHAPMWRGRYLVVEVDQASFOCSAPFIMDAPR 360  
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 DB 361 DLNISGRMAELKCRTPPMSSVKMLLPNGTVLASHARPRISVLNDGTINFSHVLLSDTG 420  
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 QY 481 TGYQPAYTTSTTVLIQTTRVPKQVAVPATDTTDRKQTSLDVEMKTKIIIGCFVAVTLLA 540  
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 ; Patent No. US20020072496A1  
 ; GENERAL INFORMATION:  
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 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan I.  
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 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter



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; APPLICANT: Gerritsen, Mary E.
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; APPLICANT: Grimaldi, J. Christopher
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; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P27301C56
; CURRENT APPLICATION NUMBER: US/09/989,279
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
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; PRIOR APPLICATION NUMBER: 60/090472

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Prior Application Number: 60/091633  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091978  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/091982  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/092182  
Prior Filing Date: 1998-07-09

Query Match 100.0%; Score 3440; DB 9; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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b 61 CTRRGLSEVPQGISNTRYLNLMENNIOQADTFRHLHLHLVLQGRNSIRQIEVGAFN 120  
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b 121 GLASLNTLEFDNLWTVIPSGAFYLSKRLWLRNPNIESIPSAFNRVPSLMELDLGE 180  
y 181 LKLEVTISEGAFEGFLNKLNLGMCNIDKMPNLTPVLGLELEMSGNHFPBIRPGSPHG 240  
b 181 LKLEVTISEGAFEGFLNKLNLGMCNIDKMPNLTPVLGLELEMSGNHFPBIRPGSPHG 240  
y 241 LSLKLLWVNSQVSLIERNAPFGLASVELANLHNNLSLPHDLFTPLRYLVELHLHHN 300  
b 241 LSLKLLWVNSQVSLIERNAPFGLASVELANLHNNLSLPHDLFTPLRYLVELHLHHN 300  
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RESULT 4  
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Sequence 229, Application US/09989727  
Patent No. US20020072497A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same  
FILE REFERENCE: P2730PIC65  
CURRENT APPLICATION NUMBER: US/09/989,727  
CURRENT FILING DATE: 2001-11-19  
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145 PRIOR FILING DATE: 1998-07-07  
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 PRIOR FILING DATE: 1998-07-09

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RESULT 5

US-09-989-731-229  
 Sequence 229, Application US/09989731  
 Patent No. US20020103125A1  
 GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Desnovers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaud, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kljavin, Ivar J.  
 APPLICANT: Napier, Mary A.

APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tamas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730P1C70  
 CURRENT APPLICATION NUMBER: US/09/989,731  
 CURRENT FILING DATE: 2001-11-20  
 PRIOR APPLICATION NUMBER: 60/049787  
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? PRIOR FILING DATE: 1998-07-07  
? PRIOR APPLICATION NUMBER: 60/092182  
? PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MLLMQVTVHHHTWNAILLFFVYLTQAQWILCAIAAASAGPQNCPSVCSCSNQPSKV 60  
Qy 61 CTRGLSEVPQGIPTNRYLNLMENNIQIADTFPHLHLEVLQGRNSIQIEVGAFN 120  
Db 61 CTRGLSEVPQGIPTNRYLNLMENNIQIADTFPHLHLEVLQGRNSIQIEVGAFN 120  
Qy 121 GLASLNTLELFDNWLTVIPSGAFEYLSKRLRELWLNPNPTIESPSYAFNRVPSLMRLDGE 180  
Db 121 GLASLNTLELFDNWLTVIPSGAFEYLSKRLRELWLNPNPTIESPSYAFNRVPSLMRLDGE 180  
Qy 181 LKLEVISSEGAPEGLFNKLVNLMGNCKDMNLTPLVGLLEMSGNHFFPEIRGSSHG 240  
Db 181 LKLEVISSEGAPEGLFNKLVNLMGNCKDMNLTPLVGLLEMSGNHFFPEIRGSSHG 240  
Qy 241 LSSLKKLWVNSQVSLIERNAPDGLASLVELNLNHNLSLPEDEFTPLRYLVLELHLHN 300  
Db 241 LSSLKKLWVNSQVSLIERNAPDGLASLVELNLNHNLSLPEDEFTPLRYLVLELHLHN 300  
Qy 301 FWCDCDILWLAWLWREYIPTNSTCCGRCHAPMHRGRYLVVEDQASQCSAPFFMDAPR 360  
Db 301 FWCDCDILWLAWLWREYIPTNSTCCGRCHAPMHRGRYLVVEDQASQCSAPFFMDAPR 360  
Qy 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTULSHASRPRI SVLNDGTINFSHVLLSDTG 420  
Db 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTULSHASRPRI SVLNDGTINFSHVLLSDTG 420  
Qy 421 VYTCMVTVAGNSNASAYLVNSTABELT\*SNYSFFTTVTVTETETESPDTRRYKVPPTTS 480  
Db 421 VYTCMVTVAGNSNASAYLVNSTABELT\*SNYSFFTTVTVTETETESPDTRRYKVPPTTS 480

481 TGYQPAYTSTVLIQTRVPKQVAVPATDTTDMQTSLSDEVAKTKIILIGCFVAVTLLA 540  
481 TGYQPAYTSTVLIQTRVPKQVAVPATDTTDMQTSLSDEVAKTKIILIGCFVAVTLLA 540  
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541 RAMELIVFKLRKQOQSTVTAARTVEIIOVDSDIIPAATSAATRAAPSVCSEGAHVLP 600  
601 IHDHINTYNTYPANGAHTWNTENSLNSLHPTVTVTIISFPYIIQTHTKDKVQETQI 653  
601 IHDHINTYNTYPANGAHTWNTENSLNSLHPTVTVTIISFPYIIQTHTKDKVQETQI 653

## ISULT 6

1-09-989-732-229

Sequence 229, Application US/09989732

Patent No. US20020123463A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

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APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas P.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same

FILE REFERENCE: P2730P1C57

CURRENT APPLICATION NUMBER: US/09/989,732

PRIOR FILING DATE: 2001-11-19

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/065186

PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065311

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PRIOR APPLICATION NUMBER: 60/066770

PRIOR FILING DATE: 1997-11-24

PRIOR APPLICATION NUMBER: 60/075945

PRIOR FILING DATE: 1998-02-25

PRIOR APPLICATION NUMBER: 60/078910

PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/083322

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PRIOR APPLICATION NUMBER: 60/084600

PRIOR FILING DATE: 1998-05-07

PRIOR APPLICATION NUMBER: 60/087106

PRIOR FILING DATE: 1998-05-28

PRIOR APPLICATION NUMBER: 60/087607

PRIOR FILING DATE: 1998-06-02

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; PRIOR FILING DATE: 1998-06-19  
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Query Match 100.0%; Score 3440; DB 10; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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## RESULT 7

; Sequence 229, Application US/09991073  
 ; Patent No. US20020127576A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
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 ; APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
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ACIDS Encoding the Same  
FILE REFERENCE: P2730PIC15  
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PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090678  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090690



Query Match 100.0%; Score 3440; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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1 M K L W Q V T V H H T W N A I L P F V Y L T A Q W I L C A A I A A A S A G P Q N C P S V C S C S N Q F S K V 60  
61 C T R G L S E V P Q G I P S N T R Y L N L N E N N I Q M I Q A D T F R L H L E V L Q L G R N S I R Q I E V G A F N 120  
61 C T R G L S E V P Q G I P S N T R Y L N L N E N N I Q M I Q A D T F R L H L E V L Q L G R N S I R Q I E V G A F N 120  
121 G L A S L N T L E F D N W L T V P S G A F E Y L S K R E L M L R N N P I E S P V A F N R V P S L M L D L G E 180  
121 G L A S L N T L E F D N W L T V P S G A F E Y L S K R E L M L R N N P I E S P V A F N R V P S L M L D L G E 180  
181 L K L E Y I S E G A F G L E N L K Y L N I G M C N I K D M P N L T P L V G L E E L E M S G N H F P E I R P G S F H G 240  
181 L K L E Y I S E G A F G L E N L K Y L N I G M C N I K D M P N L T P L V G L E E L E M S G N H F P E I R P G S F H G 240  
241 L S S L K C L W A N S Q V S L I E R N A F D G L A S V E L N L A H N L S S L P H D L F T P L R Y L V E L H L H N 300  
241 L S S L K C L W A N S Q V S L I E R N A F D G L A S V E L N L A H N L S S L P H D L F T P L R Y L V E L H L H N 300  
301 P W N C D C D I L M A W L R E Y I P T N S T C C G R C H A P M H M R G R Y L V E V D Q A S F Q C S A P F I M D A P R 360  
301 P W N C D C D I L M A W L R E Y I P T N S T C C G R C H A P M H M R G R Y L V E V D Q A S F Q C S A P F I M D A P R 360  
361 D L N I S G R M A E L K C R T P P M S S V K W L P N G T V L S H A S R H P R I S V L N D G T L N S H V L L S T G 420  
361 D L N I S G R M A E L K C R T P P M S S V K W L P N G T V L S H A S R H P R I S V L N D G T L N S H V L L S T G 420  
421 V Y T C W T N V A G N S A Y L N V S T A E L N T S N Y S F F T V T V T E T T E I S P E D T T R K Y K P V P T T S 480  
421 V Y T C W T N V A G N S A Y L N V S T A E L N T S N Y S F F T V T V T E T T E I S P E D T T R K Y K P V P T T S 480  
481 T G Y Q P A Y T T S T V L I G T T R V P Q V A P A D T T D K M Q T S L D E V M K T K I I I G C F V A V T L L A 540  
481 T G Y Q P A Y T T S T V L I G T T R V P Q V A P A D T T D K M Q T S L D E V M K T K I I I G C F V A V T L L A 540  
541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600  
541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600

QY 601 I H D H I N Y N T Y K P A G H A W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653  
Db 601 I H D H I N Y N T Y K P A G H A W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653

RESULT 8

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; Sequence 229, Application US/09990442  
; Patent No. US20020132252A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Actins Encoding the Same  
; FILE REFERENCE: P2730P1C8  
; CURRENT APPLICATION NUMBER: US/09/990,442  
; CURRENT FILING DATE: 2001-11-14  
; PRIOR APPLICATION NUMBER: 60/049787  
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 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;  
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 DB 1 MELLQVTVHHHTWNAILLPFVYLTAQVWILCAATAAASAGPQNCPSVCSCSNQFSKV 60  
 QY 61 CTRGSLSEVPQSPISNTRYLNMENNIIQMIQADTFRHLHLLEVLQLCGNSIRQIEVGAFN 120

b 61 CTRGLSEVPOGIPENTRYLMLNNTOMIQADTFRLHHLHLVLQGRNSIRQIEVGAFN 120  
 y 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLRLNRPPIESIPSYAFNRVPSLMELDLGE 180  
 b 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLRLNRPPIESIPSYAFNRVPSLMELDLGE 180  
 y 181 LKLELYISEGAFEGFNLYNLGMCNIDKMPNLTPLVGLLELXSGNHPFPIRPGSPHG 240  
 b 181 LKLELYISEGAFEGFNLYNLGMCNIDKMPNLTPLVGLLELXSGNHPFPIRPGSPHG 240  
 y 241 LSSLLKLVWMSQVSLIERNAFDGLASVLELNAHNNLSLPHDFTPLRYLVELHLHNN 300  
 b 241 LSSLLKLVWMSQVSLIERNAFDGLASVLELNAHNNLSLPHDFTPLRYLVELHLHNN 300  
 y 301 PWCDCDILMLAWLREVIPNTNCCORCHAPMEGRVYVEVDQASFOCSAPFIMDAPR 360  
 b 301 PWCDCDILMLAWLREVIPNTNCCORCHAPMEGRVYVEVDQASFOCSAPFIMDAPR 360  
 y 361 DINTSEGRMAELKRTTPMSVXWLLPNGTVLSHSHRPRISVLENDGTINFSVLLSDTG 420  
 b 361 DINTSEGRMAELKRTTPMSVXWLLPNGTVLSHSHRPRISVLENDGTINFSVLLSDTG 420  
 y 421 VYTCWNTNAGNSASAYLVNSTAEELNTSNYSFPTTVTVEIISPEDTTRKYKVPPTS 480  
 b 421 VYTCWNTNAGNSASAYLVNSTAEELNTSNYSFPTTVTVEIISPEDTTRKYKVPPTS 480  
 y 481 TGYOPAYTSTVLIOTRVPKQVAVPATDTTDMQTSIDVYKTKIIIGCFVAVTLLA 540  
 b 481 TGYOPAYTSTVLIOTRVPKQVAVPATDTTDMQTSIDVYKTKIIIGCFVAVTLLA 540  
 y 541 AAMLIVFYKLRKQORSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVVLEPT 600  
 b 541 AAMLIVFYKLRKQORSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVVLEPT 600  
 y 601 IHDHNTVNTKPAAGAKMTNSLNSLHPTVTIISPEYIIQTHKDKVQETQI 653  
 b 601 IHDHNTVNTKPAAGAKMTNSLNSLHPTVTIISPEYIIQTHKDKVQETQI 653

RESULT 9

US-09-991-163-229  
 ; Sequence 229, Application US/09991163  
 ; Patent No. US20020132253A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnovers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrata, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: P2730DIC17  
 ; CURRENT APPLICATION NUMBER: US/09/991,163  
 ; CURRENT FILING DATE: 2001-11-14

; PRIOR APPLICATION NUMBER: 60/049787  
 ; PRIOR FILING DATE: 1997-06-16  
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PRIOR APPLICATION NUMBER: 60/090862  
 PRIOR FILING DATE: 1998-06-26  
 PRIOR APPLICATION NUMBER: 60/090863  
 PRIOR FILING DATE: 1998-06-26  
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 PRIOR FILING DATE: 1998-07-01  
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 PRIOR APPLICATION NUMBER: 60/091633  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLMQVTVHHTWNAILLPPVYLTAQVWILCAIAAASAGPQNCPSVCSCSNQPSKV 60  
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 QY 61 CTRGLSEVPQGISNTRYLNLMENNIQMIQADTFRLHLEHLVLQLGNSIRQIEVAFN 120  
 DB 61 CTRGLSEVPQGISNTRYLNLMENNIQMIQADTFRLHLEHLVLQLGNSIRQIEVAFN 120  
 QY 121 GLASLNTLELEFDNWLTVIPSGAFYLSKLRELMLRNPNPIESIFSYAFNRVPSLRLDGE 180  
 DB 121 GLASLNTLELEFDNWLTVIPSGAFYLSKLRELMLRNPNPIESIFSYAFNRVPSLRLDGE 180  
 QY 181 LKLEYISEGAFEGFLNLYLNLMENNIQMIQADTFRLHLEHLVLQLGNSIRQIEVAFN 240  
 DB 181 LKLEYISEGAFEGFLNLYLNLMENNIQMIQADTFRLHLEHLVLQLGNSIRQIEVAFN 240  
 QY 241 LSSLLKLLWVMSQVSLIERNAPDGLASLVELNLNLAHNNLSLPHDLFTPLRYLVVELHLHN 300  
 DB 241 LSSLLKLLWVMSQVSLIERNAPDGLASLVELNLNLAHNNLSLPHDLFTPLRYLVVELHLHN 300  
 QY 301 PWCDCDILMLAWLREYIPTNSTCCGCHAPMGRGYLVEVDQASFOCSAPFIMDAPR 360  
 DB 301 PWCDCDILMLAWLREYIPTNSTCCGCHAPMGRGYLVEVDQASFOCSAPFIMDAPR 360  
 QY 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRPRISVLNDGTLNFSHVLLSDTG 420  
 DB 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRPRISVLNDGTLNFSHVLLSDTG 420  
 QY 421 VYTCWTVNAGNSAYLNVSTAEALNTSNYSPTTVEITTEISPEDTRKYPPTTS 480  
 DB 421 VYTCWTVNAGNSAYLNVSTAEALNTSNYSPTTVEITTEISPEDTRKYPPTTS 480  
 QY 481 TGYOPAVTTSTTVLIQTRVPKQVAVPATDTTCKMOTSLDEVNMTTKIIIGCFVAVTLLA 540  
 DB 481 TGYOPAVTTSTTVLIQTRVPKQVAVPATDTTCKMOTSLDEVNMTTKIIIGCFVAVTLLA 540  
 QY 541 AAMLIVFYKLRKRHRQORSTVTAARTVEIIQVDESDIPAAATSAATAAPSGVSGGAVVLP 600  
 DB 541 AAMLIVFYKLRKRHRQORSTVTAARTVEIIQVDESDIPAAATSAATAAPSGVSGGAVVLP 600  
 QY 601 IHDHINTYKPAAGAHWTENSLGNSLHPTVTTSISRPYIIOTHTKDKVBTQI 653  
 DB 601 IHDHINTYKPAAGAHWTENSLGNSLHPTVTTSISRPYIIOTHTKDKVBTQI 653

RESULT 10

S-09-993-604-229

Sequence 229, Application US/09993604  
Patent No. US20020137075A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tomas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730PIC25  
CURRENT APPLICATION NUMBER: US/09/993,604  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-08-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
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 PRIOR APPLICATION NUMBER: 60/091633  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;  
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 61 CTRGLSEVPQGISNTRYLNLMNNTOMQADTFRLHLHLVQLGRNSIRQIEVGA 120  
 61 CTRGLSEVPQGISNTRYLNLMNNTOMQADTFRLHLHLVQLGRNSIRQIEVGA 120  
 121 GLASINTLELFDNWLTPSGAFYLSKJRELWLNPNPIESIPYAFNRVPSLMRLDGE 180  
 121 GLASINTLELFDNWLTPSGAFYLSKJRELWLNPNPIESIPYAFNRVPSLMRLDGE 180  
 181 LKXLEYISGAFEGFLFNKLYNLGMCNKDMPNLTPLVGLLEEMSGNHFFPIRPGSFHG 240

Db 181 LKXLEYISGAFEGFLFNKLYNLGMCNKDMPNLTPLVGLLEEMSGNHFFPIRPGSFHG 240  
 Qy 241 LSSKKLWNNQSVSLIERNADFGLASIVELANLNNLSSLPDHLFTPLRYLVLEHLHNN 300  
 Db 241 LSSKKLWNNQSVSLIERNADFGLASIVELANLNNLSSLPDHLFTPLRYLVLEHLHNN 300  
 Qy 301 PNWCDIILWNLWMLREYIPTNSTCCGRCHAPMGRGRLYVEVDQASQCSAPFINDAPR 360  
 Db 301 PNWCDIILWNLWMLREYIPTNSTCCGRCHAPMGRGRLYVEVDQASQCSAPFINDAPR 360  
 Qy 361 DLNISGRMAELKCRTPPMSSVKWLLPNGTIVLSHARPRISVLNDGTINFSHVLSDTG 420  
 Db 361 DLNISGRMAELKCRTPPMSSVKWLLPNGTIVLSHARPRISVLNDGTINFSHVLSDTG 420  
 Qy 421 VYTCMVNTVAGNSNASAYLVNSTAEINTSNYSFFTTVTVEITEISPEDTTRKYKVPPTTS 480  
 Db 421 VYTCMVNTVAGNSNASAYLVNSTAEINTSNYSFFTTVTVEITEISPEDTTRKYKVPPTTS 480  
 Qy 481 TGVOPAYTTSTTVLJOTTRVPKQAVPAITDITDKMOTSLDEVMKTKLIIIGCFVAVTLLA 540  
 Db 481 TGVOPAYTTSTTVLJOTTRVPKQAVPAITDITDKMOTSLDEVMKTKLIIIGCFVAVTLLA 540  
 Qy 541 AAMLIVFYKLRKRHQORSTVTAARTVEIIQVDEIDIPAAATSAATAAPSGVSGEAVLPT 600  
 Db 541 AAMLIVFYKLRKRHQORSTVTAARTVEIIQVDEIDIPAAATSAATAAPSGVSGEAVLPT 600  
 Qy 601 IEDHINNTYKPAHGAHTENSLSLHPTTITSEPIYIIQTHTKDKVQETQI 653  
 Db 601 IEDHINNTYKPAHGAHTENSLSLHPTTITSEPIYIIQTHTKDKVQETQI 653

RESULT 11  
 US-09-990-456-229  
 ; Sequence 229, Application US/09990456  
 ; Patent No. US20020137890A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerzitsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kijavil, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas P.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tamas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: P2730PIC22  
 ; CURRENT APPLICATION NUMBER: US/09/990,456  
 ; CURRENT FILING DATE: 2001-11-14  
 ; PRIOR APPLICATION NUMBER: 60/049787  
 ; PRIOR FILING DATE: 1997-06-16  
 ; PRIOR APPLICATION NUMBER: 60/062250  
 ; PRIOR FILING DATE: 1997-10-17  
 ; PRIOR APPLICATION NUMBER: 60/065186  
 ; PRIOR FILING DATE: 1997-11-12  
 ; PRIOR APPLICATION NUMBER: 60/065311

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4	PRIOR FILING DATE: 1998-06-17	
5	PRIOR APPLICATION NUMBER: 60/089598	
6	PRIOR FILING DATE: 1998-06-17	
7	PRIOR APPLICATION NUMBER: 60/089599	
8	PRIOR FILING DATE: 1998-06-17	
9	PRIOR APPLICATION NUMBER: 60/089600	
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11	PRIOR APPLICATION NUMBER: 60/089653	
12	PRIOR FILING DATE: 1998-06-17	
13	PRIOR APPLICATION NUMBER: 60/089801	
14	PRIOR FILING DATE: 1998-06-18	
15	PRIOR APPLICATION NUMBER: 60/089907	
16	PRIOR FILING DATE: 1998-06-18	
17	PRIOR APPLICATION NUMBER: 60/089908	
18	PRIOR FILING DATE: 1998-06-18	
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32	PRIOR FILING DATE: 1998-06-23	
33	PRIOR APPLICATION NUMBER: 60/090355	
34	PRIOR FILING DATE: 1998-06-23	
35	PRIOR APPLICATION NUMBER: 60/090429	
36	PRIOR FILING DATE: 1998-06-24	
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39	PRIOR APPLICATION NUMBER: 60/090435	
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PRIOR APPLICATION NUMBER: 60/091982  
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PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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61 C T R G L S E V P Q G I P S N T R Y L N L M E N N I O M I Q A D T F R H L H L V L Q L G N S I R Q I E V G A F N 120  
121 G L A S L M T L E P O N M L T V P S G A F Y L S K L R E L W R N P I E S P S Y A F N R V P S L M E L D L G E 180  
121 G L A S L M T L E P O N M L T V P S G A F Y L S K L R E L W R N P I E S P S Y A F N R V P S L M E L D L G E 180  
181 L K L E V I S E G A F E G F N L K Y L N L M C N I K O M P N L T P L G L E E L M S G N H P E I P S G F H G 240  
181 L K L E V I S E G A F E G F N L K Y L N L M C N I K O M P N L T P L G L E E L M S G N H P E I P S G F H G 240  
241 L S L K L W M N S Q V S L I E R N A F D G L A S I V E L N L A I N N L S S L P H D I F T P L R Y L V L H L H N 300  
241 L S L K L W M N S Q V S L I E R N A F D G L A S I V E L N L A I N N L S S L P H D I F T P L R Y L V L H L H N 300  
301 P N C D C D I L M A W L R E V I P T N S T C C G R C H A P M H M R G Y L I V E V Q A S F Q C S A P F I M D A P R 360  
301 P N C D C D I L M A W L R E V I P T N S T C C G R C H A P M H M R G Y L I V E V Q A S F Q C S A P F I M D A P R 360  
361 D L N I S E G R M A E L K C T P P M S S V K W L L P N G T V L S H A S R H P R I S V L N D G T L N F S V L L S D T G 420  
361 D L N I S E G R M A E L K C T P P M S S V K W L L P N G T V L S H A S R H P R I S V L N D G T L N F S V L L S D T G 420  
421 V Y T C M V T N V A G N S A Y L N V S T A B L N T S N Y S F F T V T V T E I S P E D T T R K Y K V P T T S 480  
421 V Y T C M V T N V A G N S A Y L N V S T A B L N T S N Y S F F T V T V T E I S P E D T T R K Y K V P T T S 480  
481 T G Y Q P A Y T T S T V L I Q T T R V P K O V A P A T D T D K V O T S L D E V M K T K I I G C F V A V T L L A 540  
481 T G Y Q P A Y T T S T V L I Q T T R V P K O V A P A T D T D K V O T S L D E V M K T K I I G C F V A V T L L A 540  
541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600  
541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600  
601 I H D H I N Y N T Y P A H G A H T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V O T I 653  
601 I H D H I N Y N T Y P A H G A H T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V O T I 653

3501 12

3-09-989-721-229

Sequence 229, Application US/09989721

Patent No. US20020142961A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

Desnoyers, Luc  
Raton, Dan L.  
Perrera, Napoleone  
Pong, Sherman  
Gerber, Hanspeter  
Gerritsen, Mary E.  
Goddard, Audrey  
Godowski, Paul J.  
Grimaldi, J. Christopher  
Gurney, Austin L.  
Klavin, Ivar J.  
Napier, Mary A.  
Pan, James  
Paoni, Nicholas F.  
Roy, Margaret Ann  
Stewart, Timothy A.  
Tumas, Daniel  
Watanabe, Colin K.  
Williams, P. Mickey  
Wood, William I.  
Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730PIC55  
CURRENT APPLICATION NUMBER: US/09/989,721  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
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 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;

Best Local Similarity 100.0%; Pred. No. 1.2e-293; Mismatches 0; Indels 0; Gaps 0;  
 Matches 653; Conservative 0;

QY 1 MKLWQTVVHHTWNAILLFFVYLTQVWILCAATAAASAGPQNCPSVCSCSNQFSKVW 60  
 DB 1 MKLWQTVVHHTWNAILLFFVYLTQVWILCAATAAASAGPQNCPSVCSCSNQFSKVW 60  
 QY 61 CTRGLSEVPQGIPISTNRYLNLMNENIOMIQADTFHLLHLEVLQGRNSIRQIEVGAFN 120  
 DB 61 CTRGLSEVPQGIPISTNRYLNLMNENIOMIQADTFHLLHLEVLQGRNSIRQIEVGAFN 120  
 QY 121 GLASLNTLELFDNWLTVIPSGAPEYLSKRLWLNRRNPISPSYAFNRVPSLMRLDGE 180  
 DB 121 GLASLNTLELFDNWLTVIPSGAPEYLSKRLWLNRRNPISPSYAFNRVPSLMRLDGE 180  
 QY 181 LKLEYISEGAFEGFLNLYLNLMCNIKDMENLPLVGLBELEMSGNHFFPIRQSPFHG 240  
 DB 181 LKLEYISEGAFEGFLNLYLNLMCNIKDMENLPLVGLBELEMSGNHFFPIRQSPFHG 240  
 QY 241 LSSKLWVWNSQVSLIERNAFDGLASIVELNLAHNNLSSLPDHLFTPLRYLVLHLHNN 300  
 DB 241 LSSKLWVWNSQVSLIERNAFDGLASIVELNLAHNNLSSLPDHLFTPLRYLVLHLHNN 300

301 PNNCDLILAWLWREYIPTNSTCCGRCHAPWMEGRVLYVEVDOASFOCSAPFTMDAPR 360  
 b PNNCDLILAWLWREYIPTNSTCCGRCHAPWMEGRVLYVEVDOASFOCSAPFTMDAPR 360  
 361 DLNISGRMAELKCRTPPMSSVKWLLPNCVTLSHASRHPRIASVLDNGTILNFSHVLLSDTG 420  
 b DLNISGRMAELKCRTPPMSSVKWLLPNCVTLSHASRHPRIASVLDNGTILNFSHVLLSDTG 420  
 421 VYTCWTVNAGNSASAYLNSTAEINTSNYSFFTTVTVTETETISPEDTTKYKVPVPTS 480  
 c VYTCWTVNAGNSASAYLNSTAEINTSNYSFFTTVTVTETETISPEDTTKYKVPVPTS 480  
 481 TGQPAYTTSTTVLIQTTRVPKQVAVPATDITDXQWTSLEDEVMKTKIIICGFVAVTLLA 540  
 c TGQPAYTTSTTVLIQTTRVPKQVAVPATDITDXQWTSLEDEVMKTKIIICGFVAVTLLA 540  
 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDEIPAAATSAATAPSGVSGEAVVLP 600  
 b AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDEIPAAATSAATAPSGVSGEAVVLP 600  
 601 IHDHINNTYKPAHGAFTWENSIGNSLHPTVTITISEPVYIIQTHTKKQVETQI 653  
 c IHDHINNTYKPAHGAFTWENSIGNSLHPTVTITISEPVYIIQTHTKKQVETQI 653

RESULT 13

S-09-992-598-229

Sequence 229, Application US/09992598

Patent No. US20020160384A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kijavini, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 FILE REFERENCE: P2730P1C20

CURRENT APPLICATION NUMBER: US/09/992,598

CURRENT FILING DATE: 2001-11-14

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/065186

PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065311

PRIOR FILING DATE: 1997-11-13

PRIOR APPLICATION NUMBER: 60/066770

PRIOR FILING DATE: 1997-11-24

PRIOR APPLICATION NUMBER: 60/075945

PRIOR FILING DATE: 1998-02-25

PRIOR APPLICATION NUMBER: 60/078910

PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/083322  
 PRIOR FILING DATE: 1998-04-28  
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Query Match 100.0%; Score 3440; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLWQVTVHHTWNAILLPFVYLTAQWILCAIAAASAGPQNCPSVCSCNQSKVV 60  
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QY 61 CTRRGLSEVPQIPSNTRYLNAMENNIQMTQADTFRLHLEVLQGRNSIROIEVGAFN 120  
DB 61 CTRRGLSEVPQIPSNTRYLNAMENNIQMTQADTFRLHLEVLQGRNSIROIEVGAFN 120

QY 121 GLASLNTLELFDNWLTVIPSGAFEYLSKLELWLRNPNIESIPSYAFNRVPSLWRLDGE 180  
DB 121 GLASLNTLELFDNWLTVIPSGAFEYLSKLELWLRNPNIESIPSYAFNRVPSLWRLDGE 180

QY 181 LKLEYISEGAFEGFLNLYNLGMCNIKDMPNLTPLVGLLELEMSGNHFFPEIRPGSFHG 240  
DB 181 LKLEYISEGAFEGFLNLYNLGMCNIKDMPNLTPLVGLLELEMSGNHFFPEIRPGSFHG 240

QY 241 LSSLLKLWVNSQVSLIERNAPDGLASLYELNLAHNLSLPHDLFTPLRYLVELHLHN 300  
DB 241 LSSLLKLWVNSQVSLIERNAPDGLASLYELNLAHNLSLPHDLFTPLRYLVELHLHN 300

QY 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMHEGRYLVEDQASFOCSAFFIMDAPR 360  
DB 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMHEGRYLVEDQASFOCSAFFIMDAPR 360

QY 361 DLNISEGRMAELKCRTPPMSSVKWLLPNCVTLSHSHRHPRISVLNDGTINFSHVLLSDTG 420  
DB 361 DLNISEGRMAELKCRTPPMSSVKWLLPNCVTLSHSHRHPRISVLNDGTINFSHVLLSDTG 420

QY 421 VYTCMTNVAGNSNAYSALNVSTAEINTSNYSFFTTVTVTETTEISPEDTRKYKVPPTTS 480  
DB 421 VYTCMTNVAGNSNAYSALNVSTAEINTSNYSFFTTVTVTETTEISPEDTRKYKVPPTTS 480

QY 481 TGYQPAYTTSTTVLIQTTRVPQVAVPATDITDKKQTSLDENVKTKKIIIGCFVAVTLIA 540  
DB 481 TGYQPAYTTSTTVLIQTTRVPQVAVPATDITDKKQTSLDENVKTKKIIIGCFVAVTLIA 540

QY 541 AAMLIVFYKLRKHQRSTVTAARTVEIIIOVEDIPAAATSAATAAPSGVSGEGAVLPT 600  
DB 541 AAMLIVFYKLRKHQRSTVTAARTVEIIIOVEDIPAAATSAATAAPSGVSGEGAVLPT 600

QY 601 IHHDHINYNTYKPAHGAHWTEENSLGNSLHPTVTITSEPVIIQTHTKVKVQETQI 653  
DB 601 IHHDHINYNTYKPAHGAHWTEENSLGNSLHPTVTITSEPVIIQTHTKVKVQETQI 653

## RESULT 14

US-09-989-293A-229  
Sequence 229, Application US/09989293A  
Patent No. US20020177164A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same  
FILE REFERENCE: P2730P1C66  
CURRENT APPLICATION NUMBER: US/09/989,293A  
CURRENT FILING DATE: 2001-11-20  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
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 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;

Best Local Similarity 100.0%; Pred. No. 1.2e-293; Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 M K L L W Q V T V H H T T N A L L P F V Y L T A Q W I L C A A I A A A S A G P Q C P S V C S C S N O F S K V 60  
 1 M K L L W Q V T V H H T T N A L L P F V Y L T A Q W I L C A A I A A A S A G P Q C P S V C S C S N O F S K V 60  
 61 C T R R G L S E V P Q G I P S N T R Y L N L M E N N I Q I A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120  
 61 C T R R G L S E V P Q G I P S N T R Y L N L M E N N I Q I A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120  
 121 G L A S L A N T L E L F D W N L T V I P S G A P E Y L S K L R E L W L R N N P I E S I P S Y A F N R V P S L M L D L G E 180  
 121 G L A S L A N T L E L F D W N L T V I P S G A P E Y L S K L R E L W L R N N P I E S I P S Y A F N R V P S L M L D L G E 180  
 181 L K X L E Y I S E A P E G L F N L K Y L N L E M C N I K D M N L T P L V G L E E L E M S G N H F P I R P G S P H G 240  
 181 L K X L E Y I S E A P E G L F N L K Y L N L E M C N I K D M N L T P L V G L E E L E M S G N H F P I R P G S P H G 240  
 241 L S S I K K L W N N S O V S I E R N A F D G L A S L V E L N L A H N N S L P H D L F T P L R Y L V E L H L H N 300  
 241 L S S I K K L W N N S O V S I E R N A F D G L A S L V E L N L A H N N S L P H D L F T P L R Y L V E L H L H N 300  
 301 P W N C D C I L L W A L W L R E Y I P T N S T C G R C H A P W H R G R Y L V E V D Q A S F Q C S A P F I M D A P R 360  
 301 P W N C D C I L L W A L W L R E Y I P T N S T C G R C H A P W H R G R Y L V E V D Q A S F Q C S A P F I M D A P R 360  
 361 D I N I S E G R A E L K C R T P P M S S V K W L L P N G T V L S H A S R P R I S V L N D G T I N F S H V L L S D T G 420  
 361 D I N I S E G R A E L K C R T P P M S S V K W L L P N G T V L S H A S R P R I S V L N D G T I N F S H V L L S D T G 420

QY 421 V Y T C M V T V A G N S A Y L N V S T A E L N T S N Y S F P T T V T V E T T E I S P S D T T R K Y K P V P T T S 480  
 D b 421 V Y T C M V T V A G N S A Y L N V S T A E L N T S N Y S F P T T V T V E T T E I S P S D T T R K Y K P V P T T S 480  
 QY 481 T G Y Q P A Y T T S T T V L I Q T T R V P K Q V A V P A T D T T D K M Q T S L D E V M K T T K I I G C F V A V T L L A 540  
 D b 481 T G Y Q P A Y T T S T T V L I Q T T R V P K Q V A V P A T D T T D K M Q T S L D E V M K T T K I I G C F V A V T L L A 540  
 QY 541 R A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V V L P T 600  
 D b 541 R A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V V L P T 600  
 QY 601 I H D H I N Y N T Y K P A H G A W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q S T Q I 653  
 D b 601 I H D H I N Y N T Y K P A H G A W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q S T Q I 653

# RESULT 15

US-09-989-735-229  
 ; Sequence 229, Application US/09989735  
 ; Publication No. US20020193299A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Geiritsen, Mary B.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas P.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: P2730P1C61  
 ; CURRENT APPLICATION NUMBER: US/09/989,735  
 ; PRIOR FILING DATE: 2001-11-19  
 ; PRIOR APPLICATION NUMBER: 60/049787  
 ; PRIOR FILING DATE: 1997-06-16  
 ; PRIOR APPLICATION NUMBER: 60/062250  
 ; PRIOR FILING DATE: 1997-10-17  
 ; PRIOR APPLICATION NUMBER: 60/065186  
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 ; PRIOR APPLICATION NUMBER: 60/066770  
 ; PRIOR FILING DATE: 1997-11-24  
 ; PRIOR APPLICATION NUMBER: 60/075945  
 ; PRIOR FILING DATE: 1998-02-25  
 ; PRIOR APPLICATION NUMBER: 60/078910  
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PRIOR FILING DATE:	1998-07-02
PRIOR APPLICATION NUMBER:	60/091633
PRIOR FILING DATE:	1998-07-02
PRIOR APPLICATION NUMBER:	60/091978
PRIOR FILING DATE:	1998-07-07
PRIOR APPLICATION NUMBER:	60/091982
PRIOR FILING DATE:	1998-07-07
PRIOR APPLICATION NUMBER:	60/092182

PRIOR FILING DATE: 1998-07-09

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Query Match          100.0%; Score 3440; DB 10; Length 653;
Best Local Similarity 100.0%; Pred. No. 1.2e-293;
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

iy 1 MKLLQVTVHRTWNAILLPFVYLTQAQWILCAIAAASAGPQPCSVCSNQSFKV 60
ib 1 MKLLQVTVHRTWNAILLPFVYLTQAQWILCAIAAASAGPQPCSVCSNQSFKV 60

iy 61 CTRGLSVPOGISNTRYLNLMNNIOMQADTFHHLHLVLQIGRNSIQIEVGAFN 120
ib 61 CTRGLSVPOGISNTRYLNLMNNIOMQADTFHHLHLVLQIGRNSIQIEVGAFN 120

iy 121 GLASLNTLELFDNWLTVPSGAFYLSKLELRLNPNPISPSYAFNRVPSLKLDELGE 180
ib 121 GLASLNTLELFDNWLTVPSGAFYLSKLELRLNPNPISPSYAFNRVPSLKLDELGE 180

iy 181 LKLEYISEGAFEGFLVLYLNLMGNIKMPNLTPLVGLBLEMSGNHFPPIRPGSPHG 240
ib 181 LKLEYISEGAFEGFLVLYLNLMGNIKMPNLTPLVGLBLEMSGNHFPPIRPGSPHG 240

iy 241 LSSLKGLWNNQSLSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHNN 300
ib 241 LSSLKGLWNNQSLSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHNN 300

iy 301 PWNCDIDILMAWLREYIPTNSTCCGRCHAPMHMGRYLVVEVDQASFOCSAPFIMDAPR 360
ib 301 PWNCDIDILMAWLREYIPTNSTCCGRCHAPMHMGRYLVVEVDQASFOCSAPFIMDAPR 360

iy 361 DLINISEGMAELKORTPMSVSKWLLPNGTVLHSHRHRIRISVLDNGTINLSHVLLSDTG 420
ib 361 DLINISEGMAELKORTPMSVSKWLLPNGTVLHSHRHRIRISVLDNGTINLSHVLLSDTG 420

iy 421 VYTCWTVNAGNSASLYLNVAELNYSFETTTVEITTEISPEDTTRKYKVPPTTS 480
ib 421 VYTCWTVNAGNSASLYLNVAELNYSFETTTVEITTEISPEDTTRKYKVPPTTS 480

iy 481 TGYOPAYTSTTVLIOTRVPKQVAVPATDTDKMGTSLDEWVKTKIIIGCFVAVTLLA 540
ib 481 TGYOPAYTSTTVLIOTRVPKQVAVPATDTDKMGTSLDEWVKTKIIIGCFVAVTLLA 540

iy 541 AAMLIVPYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVVLPT 600
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iy 601 IHDHINNYTPKAGRWHTNSLGNLSLHPTVTITSEPIYIIQTHTKDKVQETQI 653
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RESULT 16

US-09-990-444-229  
Sequence 229, Application US/09990444  
Publication No. US2002019330A1

GENERAL INFORMATION:

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APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey J.
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.

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APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730P1C19
CURRENT APPLICATION NUMBER: US/09/990,444
CURRENT FILING DATE: 2001-11-14
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
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PRIOR APPLICATION NUMBER: 60/088810

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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
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PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MCLMQVTVHHHTWNAILLPVYLTQAQWILCAIAAAASAGPQNCPSVCSCNQFSKV 60  
DB 1 MCLMQVTVHHHTWNAILLPVYLTQAQWILCAIAAAASAGPQNCPSVCSCNQFSKV 60  
QY 61 CTRRGLSEVPQGISNTRYLNLMENNIQMIQADTFRHLHLHLVQLGNSIRQIEVGAFN 120  
DB 61 CTRRGLSEVPQGISNTRYLNLMENNIQMIQADTFRHLHLHLVQLGNSIRQIEVGAFN 120  
QY 121 GLASLNTLELFDNWLTVIPSGAFYLSKLRELMRNPNIESIPSYAFNRVPSLARLDGE 180  
DB 121 GLASLNTLELFDNWLTVIPSGAFYLSKLRELMRNPNIESIPSYAFNRVPSLARLDGE 180  
QY 181 LKCLEYISGAPBGLFNLKYLNLGMCNIKMPNLTPLVGLLEELMSGNHHPETIRPGSFHG 240  
DB 181 LKCLEYISGAPBGLFNLKYLNLGMCNIKMPNLTPLVGLLEELMSGNHHPETIRPGSFHG 240  
QY 241 LSSLKLLWMSQVSLIERNADFGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHHN 300  
DB 241 LSSLKLLWMSQVSLIERNADFGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHHN 300  
QY 301 PWNCDCLMLAWLRLREYIPTNSTCCGCHAPMHMGRYLVEVDQASFOCSAPFINDAPR 360  
DB 301 PWNCDCLMLAWLRLREYIPTNSTCCGCHAPMHMGRYLVEVDQASFOCSAPFINDAPR 360  
QY 361 DLNISGRMAELKCRTPPMSSVKWLLFNGTVLSHASRHPRIISVNLNDGTLNFSHVLSDTG 420  
DB 361 DLNISGRMAELKCRTPPMSSVKWLLFNGTVLSHASRHPRIISVNLNDGTLNFSHVLSDTG 420  
QY 421 VYTCWTVNAGNSNAYLNVSABNTSNYSPTTVTVTETIISPEDTRKYKPVPTTS 480  
DB 421 VYTCWTVNAGNSNAYLNVSABNTSNYSPTTVTVTETIISPEDTRKYKPVPTTS 480  
QY 481 TGYOPAYTSTTVLTIQTRVPKQVAVPATDITDKMOTSLDENVKTKIIGCFVAVTLA 540



Db 481 TGQPAYTTSTVTLQITTRVPKQAVPATDITDKMOTSLDEVMKTKIILGCFVAVTLLA 540  
QY 541 AAMLVFVKLRKHQRSTVTAARTVEIIQVDEDIPAAATAAAPSQVSGEAGVVLPT 600  
Db 541 AAMLVFVKLRKHQRSTVTAARTVEIIQVDEDIPAAATAAAPSQVSGEAGVVLPT 600  
QY 601 IHDHINYNVTKPAHGAHWTENSLGNSLHPTVTTTISEPYIIQHTHKDKVQETQI 653  
Db 601 IHDHINYNVTKPAHGAHWTENSLGNSLHPTVTTTISEPYIIQHTHKDKVQETQI 653

## RESULT 17

US-09-991-181-229  
Sequence 229, Application US/09991181  
Publication No. US20020197615A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kilavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C53  
CURRENT APPLICATION NUMBER: US/09/991,181  
PRIOR FILING DATE: 2001-11-16  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MLLNQVTVHHTWNAILLPFVYLTQWILCAAIAAASAGPQNCPSVCSNQSFKV 60

Db 1 MLLNQVTVHHTWNAILLPFVYLTQWILCAAIAAASAGPQNCPSVCSNQSFKV 60  
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Db 61 CTRRGISEVPOQIPNTRYLNLMENNIOMIADFRHLHLHLEVLQLGNSIRQIEVGAFN 120  
Qy 121 GLASLNTLELFDNMLTVIPSGAFEYLSKLRELWLNNPIESIPSYAFNRVPSLMRLDGE 180  
Db 121 GLASLNTLELFDNMLTVIPSGAFEYLSKLRELWLNNPIESIPSYAFNRVPSLMRLDGE 180  
Qy 181 LKKLEYISEGAFEGFLNLYLNLMENNIOMIADFRHLHLHLEVLQLGNSIRQIEVGAFN 240  
Db 181 LKKLEYISEGAFEGFLNLYLNLMENNIOMIADFRHLHLHLEVLQLGNSIRQIEVGAFN 240  
Qy 241 LKSLKLYWNSQVSLIERNADGLASLVELNLAHNLSSLPDHLFTPLRYLVELHLHN 300  
Db 241 LKSLKLYWNSQVSLIERNADGLASLVELNLAHNLSSLPDHLFTPLRYLVELHLHN 300  
Qy 301 PNWCDCDILWLAWLREYIPTNSTCCGRCHAPMHVGRYLYVEVDQASFCQCSAPFMDAPR 360  
Db 301 PNWCDCDILWLAWLREYIPTNSTCCGRCHAPMHVGRYLYVEVDQASFCQCSAPFMDAPR 360  
Qy 361 DLNISEGRWBLKCRTPPMSSVYKLLPNTGTVLSHARHPRISVLDGTLNFSHVLSDTG 420  
Db 361 DLNISEGRWBLKCRTPPMSSVYKLLPNTGTVLSHARHPRISVLDGTLNFSHVLSDTG 420  
Qy 421 VYTCWTVNAGNSNASAYLNVSTAEINTSNYSFFTVTVTETETETETETETETETETETET 480  
Db 421 VYTCWTVNAGNSNASAYLNVSTAEINTSNYSFFTVTVTETETETETETETETETETETET 480  
Qy 481 TGYQPAYTTSTTVLQTTTRVPKQVAPATDITDKMOTSLDEVMKTKLIIIGCFVAVTLLA 540  
Db 481 TGYQPAYTTSTTVLQTTTRVPKQVAPATDITDKMOTSLDEVMKTKLIIIGCFVAVTLLA 540  
Qy 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIPAAATSAATAAPSGVSGEAVLPT 600  
Db 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIPAAATSAATAAPSGVSGEAVLPT 600  
Qy 601 IHDHINYNTYKGAHGAHWNTENSLGNSLHPTVTITISEPYIIQHTKDKVQETQI 653  
Db 601 IHDHINYNTYKGAHGAHWNTENSLGNSLHPTVTITISEPYIIQHTKDKVQETQI 653

RESULT 18

US-09-989-730-229  
; Sequence 229, Application US/09989730  
; Publication No. US20020197674A1

GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavini, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas P.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same

FILE REFERENCE: P2730P1C69

CURRENT APPLICATION NUMBER: US/09/989,730

CURRENT FILING DATE: 2001-11-20

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

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 ; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 10; Length 653;  
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 121 GLASLNTLELFDNWLTVIPSGAEYISKLRELWLRNNPIESIPSAFNRVPSLARLDLGE 180  
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 181 LKLEYISEGAFGLFNLKYLNLGMCNKMPLVGLLESENGHFPBIRPGSFHG 240  
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 241 LSSLKLLWQNSQVSLIERNAPGLASLVELNLAHNLSLPHDLFTPLRVLVELHLHN 300  
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 301 PWNCCDILWALWREYIPTNSTCCGRCHAPMGHGRVLYVEVDQASFCQSAPPTMDAPR 360  
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 361 DLNISEGMAELKCRTPPMSSVQWLLPNGTVLSHSHRHPRIVLNDGTINFSHVLLSDTG 420  
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 421 VYTCWTVNAGNSNAYLNVSTAEINTSNYSFFTTVTVEITEISPEDTTRKYKVPVPTTS 480  
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 481 TGYOPATTTSTTVLIQTTRVPKQVAPADTTDDKQTSLSDEVNKTTLKIIIGCFVAVTLLA 540  
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 ; Sequence 229, Application US/09990436  
 ; Publication No. US20020198148A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Fertara, Napoleone  
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 ; APPLICANT: Goddard, Audrey  
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 ; APPLICANT: Kljavin, Ivar J.  
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 ; APPLICANT: Paoni, Nicholas F.  
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 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; FILE REFERENCE: P2730PIC14  
 ; CURRENT APPLICATION NUMBER: US/09/990,436  
 ; CURRENT FILING DATE: 2001-11-14  
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 PRIOR FILING DATE: 1998-07-09

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 DB 61 CTRRGLSEVPGQIPSNTRYLNLMNENNIQMIQADTRHLHLHLEVLQGRNSIRQIEVGAFN 120

121 GLASINTLEFDNLTWIPGAFYLSKLELWLRNPNPIESSPSYAFNRPVPSLMRLDLGE 180  
121 GLASINTLEFDNLTWIPGAFYLSKLELWLRNPNPIESSPSYAFNRPVPSLMRLDLGE 180  
181 LKLEYSISEGAFEGFLNLYNLGKCNIKOMPNI,TPLVGLEELEMENGNHPPPIRGSFEG 240  
181 LKLEYSISEGAFEGFLNLYNLGKCNIKOMPNI,TPLVGLEELEMENGNHPPPIRGSFEG 240  
241 LSSLKULWMMNSQVSLIERNAPDGLASIVELNLAHNNLSLPHDLFTPLRYLVEHLHNN 300  
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301 PWNCDCLILAWLWREVIPTNSCCGRCHAPMHEGRVLEVDQASFOCSAPFIMDAPR 360  
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361 DINTSEGRMAELKCRTPPMSSVKWLLPNGTVLSHAGRRPRISVINDGTINFSHVLLSDTG 420  
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421 VTCWTVNAGNSNASAYLVNSTAELNTSNYSFPTTVVETTESPEDTRKYKVPPTTS 480  
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RESULT 20

S-09-993-687-229

Sequence 229, Application US/09993687

Publication No. US20020196149A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Geritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavini, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C11  
CURRENT APPLICATION NUMBER: US/09/993,687  
CURRENT FILING DATE: 2002-11-14  
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; PRIOR APPLICATION NUMBER: 60/090678
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090690
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090694
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090695
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090696
; PRIOR FILING DATE: 1998-06-25
; PRIOR APPLICATION NUMBER: 60/090862
; PRIOR FILING DATE: 1998-06-26

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; PRIOR APPLICATION NUMBER: 60/090863
; PRIOR FILING DATE: 1998-06-26
; PRIOR APPLICATION NUMBER: 60/091360
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match      100.0%; Score 3440; DB 10; Length 653;
Best Local Similarity 100.0%; Pred. No. 1.2e-293;
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLQVTVHHTWNAILLPFVYLTAQVWILCAIAAAASAGPQNCPSVCSCNQSKVV 60
DB 1 MKLLQVTVHHTWNAILLPFVYLTAQVWILCAIAAAASAGPQNCPSVCSCNQSKVV 60

QY 61 CTRGLSEVPQGISNTRYLNLMENN:QMTQADTFRLHLEVLQJGRNSIRQIEVAFN 120
DB 61 CTRGLSEVPQGISNTRYLNLMENN:QMTQADTFRLHLEVLQJGRNSIRQIEVAFN 120

QY 121 GLASLNTLELFDNMLTVIPSGAPEYLSKRLRNPNIPISYAFNRVPSLMDLGE 180
DB 121 GLASLNTLELFDNMLTVIPSGAPEYLSKRLRNPNIPISYAFNRVPSLMDLGE 180

QY 181 LKLEYISEGAFBGLFNLKYNLGMCMNIDMPNLTPLVGLLEEMSGNHPPETRPGSFHG 240
DB 181 LKLEYISEGAFBGLFNLKYNLGMCMNIDMPNLTPLVGLLEEMSGNHPPETRPGSFHG 240

QY 241 LSSLKLLWVNSQVSLIERNAFDGLASLVELNLAHNLSSLPDHLFTPLRYLVELHLHN 300
DB 241 LSSLKLLWVNSQVSLIERNAFDGLASLVELNLAHNLSSLPDHLFTPLRYLVELHLHN 300

QY 301 PNWCCDILMLAWLREYIPTNSTCCGRCHAPMHRGRVLYEVDQASFOCSAPFIMDAPR 360
DB 301 PNWCCDILMLAWLREYIPTNSTCCGRCHAPMHRGRVLYEVDQASFOCSAPFIMDAPR 360

QY 361 DLNISEGRMAELKCRTPPSSVVKWLLPNGTVLSHGRHPRISVINDGTNLFSHVLLSDTG 420
DB 361 DLNISEGRMAELKCRTPPSSVVKWLLPNGTVLSHGRHPRISVINDGTNLFSHVLLSDTG 420

QY 421 VYTCMVNTVAGNSNASAYLNVTAEALNTSNYSFFTIVTVEITEISPEDTRKYKVPPTTS 480
DB 421 VYTCMVNTVAGNSNASAYLNVTAEALNTSNYSFFTIVTVEITEISPEDTRKYKVPPTTS 480

QY 481 TGYQPAYTTSTTVLIQTRVPKQVAVPATDITDKMOTSLDEVMKTKIILGCFVAVTLLA 540
DB 481 TGYQPAYTTSTTVLIQTRVPKQVAVPATDITDKMOTSLDEVMKTKIILGCFVAVTLLA 540

QY 541 AAMLIVFYKLRKRRHQQRSTVTAARTVEI:IQVDRDIPAAATSAATAAFSGVSGEAVLPT 600
DB 541 AAMLIVFYKLRKRRHQQRSTVTAARTVEI:IQVDRDIPAAATSAATAAFSGVSGEAVLPT 600

QY 601 IHDHINTNTYKPAHGAHWNTENSLGNSLHPTVTITSEPYIIQHTKDKVQETQI 653
DB 601 IHDHINTNTYKPAHGAHWNTENSLGNSLHPTVTITSEPYIIQHTKDKVQETQI 653

RESULT 21
US-09-989-734-229
; Sequence 229, Application US/09989734

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Publication No. US20030003531A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnovers, Luc  
APPLICANT: Eason, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Geritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Goddard, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Guiney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C64  
CURRENT APPLICATION NUMBER: US/09/989,734  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
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PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
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PRIOR APPLICATION NUMBER: 60/090349  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090355  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090429



1 PRIOR FILING DATE: 1998-06-24  
1 PRIOR APPLICATION NUMBER: 60/090431  
1 PRIOR FILING DATE: 1998-06-24  
1 PRIOR APPLICATION NUMBER: 60/090435  
1 PRIOR FILING DATE: 1998-06-24  
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1 PRIOR FILING DATE: 1998-07-02  
1 PRIOR APPLICATION NUMBER: 60/091633  
1 PRIOR FILING DATE: 1998-07-02  
1 PRIOR APPLICATION NUMBER: 60/091978  
1 PRIOR FILING DATE: 1998-07-07  
1 PRIOR APPLICATION NUMBER: 60/091982  
1 PRIOR FILING DATE: 1998-07-07  
1 PRIOR APPLICATION NUMBER: 60/092182  
1 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DE 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLQVTVHHHTVNAILLFVYLTAQVWILCAIAAASAGPQPCPSVCSCSNQFSKV 60  
DB 1 MKLLQVTVHHHTVNAILLFVYLTAQVWILCAIAAASAGPQPCPSVCSCSNQFSKV 60  
QY 61 CTRRGLSEVPQGISNTRYLNLMENNIIQADTFRHLHLEVLQGRNSIQIEVGAFN 120  
DB 61 CTRRGLSEVPQGISNTRYLNLMENNIIQADTFRHLHLEVLQGRNSIQIEVGAFN 120  
QY 121 GLASINTLEFDNKLTVIPSGAEYLSKLELWRNPIESPVAFNVPSELQDGE 180  
DB 121 GLASINTLEFDNKLTVIPSGAEYLSKLELWRNPIESPVAFNVPSELQDGE 180  
QY 181 LKLEYISEGAFGLFNKLYLNLMENNIIQADTFRHLHLEVLQGRNSIQIEVGAFN 240  
DB 181 LKLEYISEGAFGLFNKLYLNLMENNIIQADTFRHLHLEVLQGRNSIQIEVGAFN 240

QY 241 LSLKCLWVMSQSLIERNAPDGLASIVELAHNNLSLPHDLFTPLRYLYVELHLEN 300  
DB 241 LSLKCLWVMSQSLIERNAPDGLASIVELAHNNLSLPHDLFTPLRYLYVELHLEN 300  
QY 301 PWNCDIDILWAWMLREYIPTNSTCCGRCCHAPMHRGRYLYVEVDQASFOCSAPFINDAPR 360  
DB 301 PWNCDIDILWAWMLREYIPTNSTCCGRCCHAPMHRGRYLYVEVDQASFOCSAPFINDAPR 360  
QY 361 DINISEGRMAELKCRTPMSSVKKLLPNGTVLSHSHRPRISVLNDGTINFSHVLLSDTG 420  
DB 361 DINISEGRMAELKCRTPMSSVKKLLPNGTVLSHSHRPRISVLNDGTINFSHVLLSDTG 420  
QY 421 VTCMVTVNAGNSNASAYLVNSTELNTSNYSFPTTVTTEISPEDTRKYPVPTTS 480  
DB 421 VTCMVTVNAGNSNASAYLVNSTELNTSNYSFPTTVTTEISPEDTRKYPVPTTS 480  
QY 481 TGYQPAYTTSITVLITQTRVPKQAVPATDTTDKQVOTSLDEWVKTKIIIGCFVAVTLLA 540  
DB 481 TGYQPAYTTSITVLITQTRVPKQAVPATDTTDKQVOTSLDEWVKTKIIIGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQRSTVTAAATVEIIQVDEDI PAATSAATAAPSGVSGGAVVLP 600  
DB 541 AAMLIVFYKLRKHQRSTVTAAATVEIIQVDEDI PAATSAATAAPSGVSGGAVVLP 600  
QY 601 IHDHINVTYKPAHGAHWTENSIGNSLHPTVTITSEPVIIQTHTKQVQETQI 653  
DB 601 IHDHINVTYKPAHGAHWTENSIGNSLHPTVTITSEPVIIQTHTKQVQETQI 653

RESULT 22

US-09-997-653-229  
Sequence 229, Application US/09997653  
Publication No. US20030008297A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Iuc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferzara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC38  
CURRENT APPLICATION NUMBER: US/09/997,653  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770

1	PRIOR APPLICATION NUMBER: 60/089538
2	PRIOR FILING DATE: 1998-06-17
3	PRIOR APPLICATION NUMBER: 60/089598
4	PRIOR FILING DATE: 1998-06-17
5	PRIOR APPLICATION NUMBER: 60/089599
6	PRIOR FILING DATE: 1998-06-17
7	PRIOR APPLICATION NUMBER: 60/089600
8	PRIOR FILING DATE: 1998-06-17
9	PRIOR APPLICATION NUMBER: 60/089653
10	PRIOR FILING DATE: 1998-06-17
11	PRIOR APPLICATION NUMBER: 60/089801
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17	PRIOR APPLICATION NUMBER: 60/089947
18	PRIOR FILING DATE: 1998-06-19
19	PRIOR APPLICATION NUMBER: 60/089948
20	PRIOR FILING DATE: 1998-06-19
21	PRIOR APPLICATION NUMBER: 60/089952
22	PRIOR FILING DATE: 1998-06-19
23	PRIOR APPLICATION NUMBER: 60/090246
24	PRIOR FILING DATE: 1998-06-22
25	PRIOR APPLICATION NUMBER: 60/090252
26	PRIOR FILING DATE: 1998-06-22
27	PRIOR APPLICATION NUMBER: 60/090254
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29	PRIOR APPLICATION NUMBER: 60/090349
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31	PRIOR APPLICATION NUMBER: 60/090355
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33	PRIOR APPLICATION NUMBER: 60/090429
34	PRIOR FILING DATE: 1998-06-24
35	PRIOR APPLICATION NUMBER: 60/090431
36	PRIOR FILING DATE: 1998-06-24
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39	PRIOR APPLICATION NUMBER: 60/090444
40	PRIOR FILING DATE: 1998-06-24
41	PRIOR APPLICATION NUMBER: 60/090445
42	PRIOR FILING DATE: 1998-06-24
43	PRIOR APPLICATION NUMBER: 60/090472
44	PRIOR FILING DATE: 1998-06-24
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48	PRIOR FILING DATE: 1998-06-24
49	PRIOR APPLICATION NUMBER: 60/090542
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52	PRIOR FILING DATE: 1998-06-24
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56	PRIOR FILING DATE: 1998-06-25
57	PRIOR APPLICATION NUMBER: 60/090690
58	PRIOR FILING DATE: 1998-06-25
59	PRIOR APPLICATION NUMBER: 60/090694
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67	PRIOR APPLICATION NUMBER: 60/090862
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69	PRIOR APPLICATION NUMBER: 60/090863
70	PRIOR FILING DATE: 1998-06-26
71	PRIOR APPLICATION NUMBER: 60/091360
72	PRIOR FILING DATE: 1998-07-01
73	PRIOR APPLICATION NUMBER: 60/091478
74	PRIOR FILING DATE: 1998-07-02
75	PRIOR APPLICATION NUMBER: 60/091544

PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1y 1 M K L I M O V T V H H T W A I L P F V Y L T A Q W I L C A A T A A A A S A G P Q N C S V C S C N Q P S K V 60  
1b 1 M K L I M O V T V H H T W A I L P F V Y L T A Q W I L C A A T A A A A S A G P Q N C S V C S C N Q P S K V 60  
1y 61 C T R G L S E V P Q G I P S N T R Y L N L M E N N I Q M I Q A D T P R H L H L E V L Q L G N S I R Q I E V G A F N 120  
1b 61 C T R G L S E V P Q G I P S N T R Y L N L M E N N I Q M I Q A D T P R H L H L E V L Q L G N S I R Q I E V G A F N 120  
1y 121 G L A S I A N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L E N N P I E S I P S Y A F N R V P S L M E L D L G E 180  
1b 121 G L A S I A N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L E N N P I E S I P S Y A F N R V P S L M E L D L G E 180  
1y 181 L K K L E Y I S E G A P E G L E N L K Y L N L G M C N I K D M P N L P L V L G L E E L M S G N H P E I R P Q S F H G 240  
1b 181 L K K L E Y I S E G A P E G L E N L K Y L N L G M C N I K D M P N L P L V L G L E E L M S G N H P E I R P Q S F H G 240  
1y 241 L S S L K K L W A N S O V S I E N A D G L A S I V E L N L A H N L S S I P H D L P T P L A Y L V E L H L H N 300  
1b 241 L S S L K K L W A N S O V S I E N A D G L A S I V E L N L A H N L S S I P H D L P T P L A Y L V E L H L H N 300  
1y 301 P M C D C D I L L A W L R E Y I P T N S T C G R C H A P M H M R G R Y L V E V D Q A S F Q C S A P P I M D A P R 360  
1b 301 P M C D C D I L L A W L R E Y I P T N S T C G R C H A P M H M R G R Y L V E V D Q A S F Q C S A P P I M D A P R 360  
1y 361 D I A N I S G R A E L K C R T P P M S S V K W L L P N G T V L S H A S R P R I S V L N D G L T A F S H V L L S D T G 420  
1b 361 D I A N I S G R A E L K C R T P P M S S V K W L L P N G T V L S H A S R P R I S V L N D G L T A F S H V L L S D T G 420  
1y 421 V Y T C M V T N V A G N S A Y L N V S T A E L N T S N Y S F F T V T V T E T E I S P E D T T R K Y K P V P T T S 480  
1b 421 V Y T C M V T N V A G N S A Y L N V S T A E L N T S N Y S F F T V T V T E T E I S P E D T T R K Y K P V P T T S 480  
1y 481 T G Y O R A Y T T S T V I L O T T R P K O V A P A T D T D K M Q T S L D E V M K T K I I I G C F V A V T L L A 540  
1b 481 T G Y O R A Y T T S T V I L O T T R P K O V A P A T D T D K M Q T S L D E V M K T K I I I G C F V A V T L L A 540  
1y 541 A A M L I V F Y K L R K H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600  
1b 541 A A M L I V F Y K L R K H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600  
1y 601 I H D H I N N T Y K P A H G A H W T E N S I G N S L A P T V T T I S E P V I I C T H T K D K V Q E T O I 653  
1b 601 I H D H I N N T Y K P A H G A H W T E N S I G N S L A P T V T T I S E P V I I C T H T K D K V Q E T O I 653

RESULT 23  
US-09-993-667-229  
; Sequence 229, Application US/09993667  
; Publication No. US20030022187A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Geritsen, Mary S.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C4  
CURRENT APPLICATION NUMBER: US/09/993,667  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-15  
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 PRIOR APPLICATION NUMBER: 60/091633  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;

Best Local Similarity 100.0%; Pred. No. 1.2e-293;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MKLLMQVTVHHHTWNAILLPFVYLTAQVWILCAIAAASAGPQNCPSVCSCSNQFSKVW	60
DB	1	MKLLMQVTVHHHTWNAILLPFVYLTAQVWILCAIAAASAGPQNCPSVCSCSNQFSKVW	60
QY	61	CTRGISEVPOGIPSNTRYLMNENNIQMIQADTFRLHHLHLEVQLGRNSIRQIEVCAFN	120
DB	61	CTRGISEVPOGIPSNTRYLMNENNIQMIQADTFRLHHLHLEVQLGRNSIRQIEVCAFN	120
QY	121	GLASLNTLELFDNWLTVIPSGAFYLSKRLRLWLNPNPIESIPYAFNRVPFLRLDLGE	180
DB	121	GLASLNTLELFDNWLTVIPSGAFYLSKRLRLWLNPNPIESIPYAFNRVPFLRLDLGE	180
QY	181	LKKLEYISEGAFGLFNKLYNLGCMNKKMPNLTPLVGLTELEMSGNHPPFIRPGSFHG	240
DB	181	LKKLEYISEGAFGLFNKLYNLGCMNKKMPNLTPLVGLTELEMSGNHPPFIRPGSFHG	240
QY	241	LSSLLKLVWMSQVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLYVELHLHNN	300
DB	241	LSSLLKLVWMSQVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLYVELHLHNN	300
QY	301	FWNCDDILMLAWWLEVIPTNSTCCGRCHAPMGRGYLVEVDQASFOCSAPPFIMDAPR	360

Db 301 PNCDCDILWAWLWREYIPTNSTCCGRCHAPNMRGRVLEVDQASFOCSAPFTMDAPR 360  
Qy 361 DLNISEGRMAELKCRTPPMSSVXWLLPNGTVLASHSRHPRISVLNDGTLNFSHVLLSDTG 420  
Db 361 DLNISEGRMAELKCRTPPMSSVXWLLPNGTVLASHSRHPRISVLNDGTLNFSHVLLSDTG 420  
Qy 421 VYTCMTNIVAGNSNAYLNVSFAELNTSNYSFFTVTVETTEISPEPTTRKYKVPPTS 480  
Db 421 VYTCMTNIVAGNSNAYLNVSFAELNTSNYSFFTVTVETTEISPEPTTRKYKVPPTS 480  
Qy 481 TGYQPAYTTSTTVLIQTRVPKQVAPATDTTDMQTSLEDEWTKTKIIIGCFVAVTLLA 540  
Db 481 TGYQPAYTTSTTVLIQTRVPKQVAPATDTTDMQTSLEDEWTKTKIIIGCFVAVTLLA 540  
Qy 541 AAMLIYFYKLRKHQRSTVTAARTVEIIVQVEDIPAAATSAATAAPSGVSGEAVLPT 600  
Db 541 AAMLIYFYKLRKHQRSTVTAARTVEIIVQVEDIPAAATSAATAAPSGVSGEAVLPT 600  
Qy 601 IHDHINYNTYKPAHGAFTWENSIGNSLHPTVTITISEPYIIQHTKQVQETQI 653  
Db 601 IHDHINYNTYKPAHGAFTWENSIGNSLHPTVTITISEPYIIQHTKQVQETQI 653

## RESULT 24

US-09-997-428-229  
; Sequence 229, Application US/09997428  
; Publication No. US20030027162A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gottard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Faoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730PIC44  
; CURRENT APPLICATION NUMBER: US/09/997,428  
; CURRENT FILING DATE: 2003-11-15  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/065186  
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 ; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
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Qy 1 M K L L M O V T V H H T W N A I L L P F V Y L T A Q W I L C A A I A A A S A G P O N C P S V C S C S N Q F S K V V 60  
 Db 1 M K L L M O V T V H H T W N A I L L P F V Y L T A Q W I L C A A I A A A S A G P O N C P S V C S C S N Q F S K V V 60

Qy 61 C T R R G L S E V P Q I P S N T R Y L N L M E N N I Q M I Q A D F R L H L E V L Q L G R N S I R Q I E V G A F N 120  
 Db 61 C T R R G L S E V P Q I P S N T R Y L N L M E N N I Q M I Q A D F R L H L E V L Q L G R N S I R Q I E V G A F N 120

Qy 121 G L A S I N T L E L F D N W L T V I P S G A F E Y L S K L R E L M L R N N P I E S I P S Y A F N R V P S L A R L D I G E 180  
 Db 121 G L A S I N T L E L F D N W L T V I P S G A F E Y L S K L R E L M L R N N P I E S I P S Y A F N R V P S L A R L D I G E 180

Qy 181 L K K L E Y I S E G A F E G L F N L K Y L N L G M C N I K O M P N L T P L V G L E E L E M S G N H P P E I R P G S F H G 240  
 Db 181 L K K L E Y I S E G A F E G L F N L K Y L N L G M C N I K O M P N L T P L V G L E E L E M S G N H P P E I R P G S F H G 240

Qy 241 L S S I K K L W M N S Q V S L I E R N A P D G L A S I V E L N L A H N L S S L P H D L F T P L R Y L V E L H L H N 300  
 Db 241 L S S I K K L W M N S Q V S L I E R N A P D G L A S I V E L N L A H N L S S L P H D L F T P L R Y L V E L H L H N 300

Qy 301 P W N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M E M R G R Y L V E V D Q A S F Q C S A P P I M D A P R 360  
 Db 301 P W N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M E M R G R Y L V E V D Q A S F Q C S A P P I M D A P R 360

Qy 361 D L M I S E G R A E L K C T P P M S S V K M L L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420  
 Db 361 D L M I S E G R A E L K C T P P M S S V K M L L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420

Qy 421 V Y T C M V T N V A G N S N A S A Y L N V S T A E L N T S N Y S F T T V T V T E T S P E D T T R K Y K P V P T T S 480  
 Db 421 V Y T C M V T N V A G N S N A S A Y L N V S T A E L N T S N Y S F T T V T V T E T S P E D T T R K Y K P V P T T S 480

Qy 481 T G Y P A Y T T S T T V L I Q T T R V P K Q A V P A T D T T D K M Q T S L D E V M K T K I I I G C F V A V T L L A 540  
 Db 481 T G Y P A Y T T S T T V L I Q T T R V P K Q A V P A T D T T D K M Q T S L D E V M K T K I I I G C F V A V T L L A 540

Qy 541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V V L P T 600  
 Db 541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V V L P T 600

Qy 601 I H D H I N Y N T Y K P A G H A W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V O E T Q I 653  
 Db 601 I H D H I N Y N T Y K P A G H A W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V O E T Q I 653

RESULT 25  
 US-09-997-666-229  
 ; Sequence 229 Application US/0997666  
 ; Publication No. US20030027163A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.  
 APPLICANT: Kijavini, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730PIC42  
 CURRENT APPLICATION NUMBER: US/09/997,666  
 CURRENT FILING DATE: 2001-11-15  
 PRIOR APPLICATION NUMBER: 60/049787  
 PRIOR FILING DATE: 1997-06-16  
 PRIOR APPLICATION NUMBER: 60/062250  
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 PRIOR APPLICATION NUMBER: 60/090540

Prior Filing Date: 1998-06-24  
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Prior Filing Date: 1998-07-01  
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Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091978  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/091982  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/092182  
Prior Filing Date: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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121 GLASLNTLELFDNWLTVIPSGAFYLSKRLWLNRPNTIESIPSYAFNRPVPSLMRLDGE 180  
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181 LKLEYISEGAFEGFLNKLINLGNWIKOMPNTLPVGLLEEMSGNHPPIRPGSFHG 240  
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241 LSSLLKLWVNSQVSLIERNAFQGLASLVELNLAHNNLSLPHDLTPRLYLVELLHNN 300  
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361 DLNISEGRMAELKCRTPMGSVKWLLPNTGTVLSHSDPRISVLNDGTLNFSVLLSDTG 420  
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421 VYTCWTVNAGNSASAYLNVSTAEIATNSYSPFTTVVETTESPEDTTRKYKVPVPTS 480

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Db 481 TGYQPAYTSTTVLIQTTRVPKQVAVPATDTTDDKQVSLDEVMKTKIIIGCFVAVTLLA 540  
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Db 601 IEHDHINNTYKPAHGAHWTENSLSLHPTVTITISBPYIIQTHTKQKVOETQI 653

RESULT 26

US-09-990-438-229  
; Sequence 229, Application US/09990438  
; Publication No. US20030027754A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavir, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas P.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730P1C3  
; CURRENT APPLICATION NUMBER: US/09/990,438  
; CURRENT FILING DATE: 2001-11-14  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
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; PRIOR APPLICATION NUMBER: 60/065186  
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139 PRIOR FILING DATE: 1998-07-02  
140 PRIOR APPLICATION NUMBER: 60/091978  
141 PRIOR FILING DATE: 1998-07-07  
142 PRIOR APPLICATION NUMBER: 60/091982  
143 PRIOR FILING DATE: 1998-07-07  
144 PRIOR APPLICATION NUMBER: 60/092182  
145 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
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361 DLNISEGRMAELKCRTPPMSSVAVMLLPNGTVLSHSHRPRISVLNDGTLNFSHVLSDTG 420  
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421 VTCMVNTVAGNSASAVLNSTALNTSNYSFPTTVTETTSISPDTRKYPVPTTS 480  
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481 TGYQPAYTTSITVLIQTRVPRKQAVPATDTTDMQTSLEDEVMKTKIIGCFVAVTLIA 540  
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541 AAMLVFKLRKHQRORSTVTAARTVELIQDDEIPRATSAATAAPSGVSGEAVLPT 600  
601 IHDHINYNTPKPAHGAHWNTENSLGNSLHPTVTITISEPYIIQTHTKQVBTQI 653  
601 IHDHINYNTPKPAHGAHWNTENSLGNSLHPTVTITISEPYIIQTHTKQVBTQI 653

RESULT 27

JS-09-990-562-229

Sequence 229, Application US/09990562

Publication No. US20030027985A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kijavic, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tamas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

Acids Encoding the Same

FILE REFERENCE: P2730P1C18

CURRENT APPLICATION NUMBER: US/09/990,562

CURRENT FILING DATE: 2001-11-14

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/065186

PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065311

PRIOR FILING DATE: 1997-11-13

PRIOR APPLICATION NUMBER: 60/066770

PRIOR FILING DATE: 1997-11-24

PRIOR APPLICATION NUMBER: 60/075945

PRIOR FILING DATE: 1998-02-25

PRIOR APPLICATION NUMBER: 60/078910

PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/083322

PRIOR FILING DATE: 1998-04-28

PRIOR APPLICATION NUMBER: 60/084600

PRIOR FILING DATE: 1998-05-07

PRIOR APPLICATION NUMBER: 60/087106

PRIOR FILING DATE: 1998-05-28

PRIOR APPLICATION NUMBER: 60/087607

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 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/091982  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/092182  
 ; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MKLLMQVTVHHHTWNAILLPFVYLTAQVWILCAATAAASAGPNCPSVCSCNQFQSKVV	60
Db	1	MKLLMQVTVHHHTWNAILLPFVYLTAQVWILCAATAAASAGPNCPSVCSCNQFQSKVV	60
Qy	61	CTRGLSEVPOGIPSNTRYLNLMENNIQMIQADTPRHHLHLEVLQLGNSIRQIEVGAFN	120
Db	61	CTRGLSEVPOGIPSNTRYLNLMENNIQMIQADTPRHHLHLEVLQLGNSIRQIEVGAFN	120
Qy	121	GLASLNTLELPDNLTVIPSGAFYLSKLRELMRNNDIESIPSYAFNRVPSLMLRLDGE	180
Db	121	GLASLNTLELPDNLTVIPSGAFYLSKLRELMRNNDIESIPSYAFNRVPSLMLRLDGE	180
Qy	181	LKKLEYISEGAFEGFLNKLNLGNCNIKMPNLTPLVGLSELEMSGNHFPPIRPGSFHG	240
Db	181	LKKLEYISEGAFEGFLNKLNLGNCNIKMPNLTPLVGLSELEMSGNHFPPIRPGSFHG	240
Qy	241	LSSLKLLWMSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRYLYVELHLHN	300
Db	241	LSSLKLLWMSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRYLYVELHLHN	300
Qy	301	PNCDCDILMLAWMLREYIPNTNSTCCGRCHAPMRGRYLVVDQASFOCSAPFMDAPR	360
Db	301	PNCDCDILMLAWMLREYIPNTNSTCCGRCHAPMRGRYLVVDQASFOCSAPFMDAPR	360
Qy	361	DLNISGRMAELKCKTPPMSSVKMLLPNGTVLSHSHRPRISVLNDGTLPNFSHYLLSDTG	420
Db	361	DLNISGRMAELKCKTPPMSSVKMLLPNGTVLSHSHRPRISVLNDGTLPNFSHYLLSDTG	420
Qy	421	VYTCMVTNVAAGNSASAYLVNSTAELNYSPTTIVTETTELSPEDTTKYPVPTTS	480
Db	421	VYTCMVTNVAAGNSASAYLVNSTAELNYSPTTIVTETTELSPEDTTKYPVPTTS	480
Qy	481	TGYQPAYTTSYVLIQTTRVPKQVAVPATDTRDKQOTSLDEVMKTKIIIGCFVAVTLLA	540
Db	481	TGYQPAYTTSYVLIQTTRVPKQVAVPATDTRDKQOTSLDEVMKTKIIIGCFVAVTLLA	540

541 AAMLIYFKLRKHQOOSTVTAARTVEIIQVDEDDIPAATSAATAAPSGVSGEAVLPT 600  
541 AAMLIYFKLRKHQOOSTVTAARTVEIIQVDEDDIPAATSAATAAPSGVSGEAVLPT 600  
601 IHDHINTVTKPAHGAHTWNSLNSLHPTVTIISPYIIQHTTKDKVOETQI 653  
601 IHDHINTVTKPAHGAHTWNSLNSLHPTVTIISPYIIQHTTKDKVOETQI 653

## RESULT 28

IS-09-990-711-229  
Sequence 229, Application US/09990711  
Publication No. US20030032023A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Deanoysers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavlin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCES: P2730P1C2  
CURRENT APPLICATION NUMBER: US/09/990,711  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
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PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
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PRIOR APPLICATION NUMBER: 60/087827  
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PRIOR FILING DATE: 1998-06-04

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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MLLMOWTVHHHTWNAILLFFVLTQWILCAIAAASAGPQPCSVCSNQFSKW 60  
DB 1 MLLMOWTVHHHTWNAILLFFVLTQWILCAIAAASAGPQPCSVCSNQFSKW 60

QY 61 CTRRGSEVPOGIPSNTRYLNLMENNIOIQAOTFRHLHLEVLQGRNSIRQIEVAFN 120  
DB 61 CTRRGSEVPOGIPSNTRYLNLMENNIOIQAOTFRHLHLEVLQGRNSIRQIEVAFN 120  
QY 121 GLASLNTLELFDNMLTVIPSGAPEYLSKLRELMRNPIBSIPSYAFNVPISLMRLDGE 180  
DB 121 GLASLNTLELFDNMLTVIPSGAPEYLSKLRELMRNPIBSIPSYAFNVPISLMRLDGE 180  
QY 181 LKLEYISSEGAPEGLFNLKYNLGMNCNIKMPNLTPLVGLLEELMESGNHFFPEIRPGSFG 240  
DB 181 LKLEYISSEGAPEGLFNLKYNLGMNCNIKMPNLTPLVGLLEELMESGNHFFPEIRPGSFG 240  
QY 241 LSSKKLWMSQVSLTERNAFGLASLVELNLAHNLSSLPDLFTPLRYLVELLHFN 300  
DB 241 LSSKKLWMSQVSLTERNAFGLASLVELNLAHNLSSLPDLFTPLRYLVELLHFN 300  
QY 301 PNWCDCDILWMLREVIPNTNCCGRCHAPMHRGRVLYVEVDQASFOCSAPFIMDAFR 360  
DB 301 PNWCDCDILWMLREVIPNTNCCGRCHAPMHRGRVLYVEVDQASFOCSAPFIMDAFR 360  
QY 361 DINISEGMAELKCRTPMSVKKLLPNTVLSHSEHPRISVLNDGTLPNSHVLSDTG 420  
DB 361 DINISEGMAELKCRTPMSVKKLLPNTVLSHSEHPRISVLNDGTLPNSHVLSDTG 420  
QY 421 VYTCMTNVAAGNSASAYLVNSTCCGRCHAPMHRGRVLYVEVDQASFOCSAPFIMDAFR 480  
DB 421 VYTCMTNVAAGNSASAYLVNSTCCGRCHAPMHRGRVLYVEVDQASFOCSAPFIMDAFR 480  
QY 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDTTDMQTSLDENVKTKIILGCFVAVTLLA 540  
DB 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDTTDMQTSLDENVKTKIILGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATAAAPSQVSGEAVVLP 600  
DB 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATAAAPSQVSGEAVVLP 600  
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DB 601 IDHININITYKPAHGAHWNTENSLSLHPTVTTISPIYIIQHTKDKVQETQI 653

RESULT 29  
US-09-989-726-229  
; Sequence 229, Application US/09989726  
; Publication No. US2003040473A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same

1	PRIOR APPLICATION NUMBER: 60/088872
2	PRIOR FILING DATE: 1998-06-11
3	PRIOR APPLICATION NUMBER: 60/089105
4	PRIOR FILING DATE: 1998-06-12
5	PRIOR APPLICATION NUMBER: 60/089440
6	PRIOR FILING DATE: 1998-06-16
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/	PRIOR FILING DATE:	1998-06-25
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/	PRIOR FILING DATE:	1998-06-25
/	PRIOR APPLICATION NUMBER:	60/090862
/	PRIOR FILING DATE:	1998-06-26
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/	PRIOR FILING DATE:	1998-07-07
/	PRIOR APPLICATION NUMBER:	60/091982
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/	PRIOR APPLICATION NUMBER:	60/092182
/	PRIOR FILING DATE:	1998-07-09
Query Match                 100.0%;     Score 3440;     DB 11;     Length 653;		
Best Local Similarity     100.0%;     Pred No. 1.2e-293;		
Matches 653;     Conservative     0;     Mismatches     0;     Indels     0;     Gaps     0;		
QY	1	MKLLNQVTVHHTWNAILLPFVYLTAQWILCAAIAAASAGPQCPSVCSCSNQFSKVV 60
DB	1	MXLLNQVTVHHHTWNAILLPFVYLTAQWILCAAIAAASAGPQCPSVCSCSNQFSKVV 60
QY	61	CYRGLSEVPQGPISNTRYLNMENNTQMQAOTFRHLHLHVQLGRNSIQIEVGAPN 120
DB	61	CYRGLSEVPQGPISNTRYLNMENNTQMQAOTFRHLHLHVQLGRNSIQIEVGAPN 120
QY	121	GLASLNTLJELFDNLMTVIPSGAFYLSKLRELWRNNPIESIPSYAFNRVPSSMRDLGJE 180
DB	121	GLASLNTLJELFDNLMTVIPSGAFYLSKLRELWRNNPIESIPSYAFNRVPSSMRDLGJE 180
QY	181	LKKLYISSEGAPGELFNKYLNLCMCIKOMPNLTPLVGLLELMNGNHPPAIRPGSFHG 240
DB	181	LKKLEYISSEGAPGELFNKYLNLCMCIKOMPNLTPLVGLLELMNGNIFFEIRPGSFHG 240
QY	241	LSLSKKLWVMQSQVSLIERNADFGLASVELNLAHNNLSLPDHLTPTPLYLVLELHLHN 300
DB	241	LSLSKKLWVMQSQVSLIERNADFGLASVELNLAHNNLSLPDHLTPTPLYLVLELHLHN 300
QY	301	PWNCCDIILAWWLREYIPTNSTCCGRCHAPMHMGRYILVEVDQASFOCSAFFIMDAPR 360
DB	301	PWNCCDIILAWWLREYIPTNSTCCGRCHAPMHMGRYILVEVDQASFOCSAFFIMDAPR 360
QY	361	DUNISEGPMELCKCTPPMWSVKMLLNGTYVLSHSRHPRISVINDGTINFSVILLSDTG 420
DB	361	DUNISEGRVAELCKCTPPMWSVKMLLNGTYVLSHSRHPRISVINDGTINFSVILLSDTG 420
QY	421	VTCMWTVNVAGNSASAYLNVSTAEALNTSNYSFFTIVTVETTEISPEDITRKYPVPTTS 480
DB	421	VTCMWTVNVAGNSASAYLNVSTAEALNTSNYSFFTIVTVETTEISPEDITRKYPVPTTS 480
QY	481	TGYOPAYTSTTVILEOTTREPKQAVAPATDITDKMQTSLDEWKTKTLIIIGCFVATLLA 540
DB	481	TGYQPAYTSTTVILEOTTREPKQAVAPATDITDKMQTSLDEWKTKTLIIIGCFVATLLA 540
QY	541	AAMLIVFYKLRKHQRSTVTVAARTVEILIOVEDDIPAATSAAATAAPSQGVSGEGAVLFT 600
DB	541	AAMLIVFYKLRKHQRSTVTVAARTVEILIOVEDDIPAATSAAATAAPSQGVSGEGAVLFT 600
QY	601	IHDHINYNTYKPAQHGAHWTESSLGNSLHPVTVTITISEPYIIQTHTKQKVQETQI 653
DB	601	IHDHINYNTYKPAQHGAHWTESSLGNSLHPVTVTITISEPYIIQTHTKQKVQETQI 653

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 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLQVTVVHHHTWNAILLPFVYLTQAQWILCAATAAASAGPQNCPCVCSNOPSXV 60  
 DB 1 MKLLQVTVVHHHTWNAILLPFVYLTQAQWILCAATAAASAGPQNCPCVCSNOPSXV 60  
 QY 61 CTRRGLEVEPQGPSNTRYLNLMENNIQIADTFRLHLHLLEVQLGNSIRQIEVGAFN 120  
 DB 61 CTRRGLEVEPQGPSNTRYLNLMENNIQIADTFRLHLHLLEVQLGNSIRQIEVGAFN 120  
 QY 121 GLASINTLELFDNLWLTIPSGAPFYLKRLWLNPNPIESIPSYAFNRPVSLKELDGE 180



121 GLASINTLEFDNLTPWGAPEYLSKIRLWLNPNPIESIPSYAFNRPVPSLMRLDLGE 180  
 181 LKLEYISEGAFGLFNLKYNLGNKCNIKOMPNTPLVGLLEEMSGNHPEIRPGSFHG 240  
 181 LKLEYISEGAFGLFNLKYNLGNKCNIKOMPNTPLVGLLEEMSGNHPEIRPGSFHG 240  
 241 LSSLKLLWNNQSVSLIERNAPDGLASIVELNLAHNNLSLPHDLFTPLRYLVVLLHGN 300  
 241 LSSLKLLWNNQSVSLIERNAPDGLASIVELNLAHNNLSLPHDLFTPLRYLVVLLHGN 300  
 301 PWNCDLTLWALWREVIPTNSTCCGRCHAPMHRGRYLVVDQASFCQSAFFIMDAER 360  
 301 PWNCDLTLWALWREVIPTNSTCCGRCHAPMHRGRYLVVDQASFCQSAFFIMDAER 360  
 361 DLNISEGRMAELKRTPPMSVKWLLPNGTVLSHSHRPRISVLNDGTLNFSVLLSDTG 420  
 361 DLNISEGRMAELKRTPPMSVKWLLPNGTVLSHSHRPRISVLNDGTLNFSVLLSDTG 420  
 421 VYTCNVTVAGNSNASVLYNSTAELNNTSNYSFFTTVTTEISPEDITRKVKPVTTS 480  
 421 VYTCNVTVAGNSNASVLYNSTAELNNTSNYSFFTTVTTEISPEDITRKVKPVTTS 480  
 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDITDKXQTSLEWMTTKIILGCPVAVTLLA 540  
 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDITDKXQTSLEWMTTKIILGCPVAVTLLA 540  
 541 RMLIVFYKLRKHCOORSTVTAARTVEIIOVDEDI PAATSAATAAPSGVSGGAVVLP 600  
 541 RMLIVFYKLRKHCOORSTVTAARTVEIIOVDEDI PAATSAATAAPSGVSGGAVVLP 600  
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RESULT 31

US-09-990-437-229  
 : Sequence 229, Application US/09990437  
 : Publication No. US20030045463A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Ashkenazi, Avi J.  
 : APPLICANT: Baker, Kevin P.  
 : APPLICANT: Botstein, David  
 : APPLICANT: Desnoyers, Luc  
 : APPLICANT: Eaton, Dan L.  
 : APPLICANT: Ferrara, Napoleone  
 : APPLICANT: Fong, Sherman  
 : APPLICANT: Gerber, Hanspeter  
 : APPLICANT: Gerritsen, Mary E.  
 : APPLICANT: Goddard, Audrey  
 : APPLICANT: Godowski, Paul J.  
 : APPLICANT: Grimaldi, J. Christopher  
 : APPLICANT: Gurney, Austin L.  
 : APPLICANT: Kljavin, Ivar J.  
 : APPLICANT: Napier, Mary A.  
 : APPLICANT: Pan, James  
 : APPLICANT: Paoni, Nicholas F.  
 : APPLICANT: Roy, Margaret Ann  
 : APPLICANT: Stewart, Timothy A.  
 : APPLICANT: Tumas, Daniel  
 : APPLICANT: Watanabe, Colin K.  
 : APPLICANT: Williams, P. Mickey  
 : APPLICANT: Wood, William I.  
 : APPLICANT: Zhang, Zemin  
 : TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 : TITLE OF INVENTION: Acids Encoding the Same  
 : FILE REFERENCE: P2730PIC49  
 : CURRENT APPLICATION NUMBER: US/09/990,437  
 : CURRENT FILING DATE: 2001-11-16  
 : PRIOR APPLICATION NUMBER: 60/049787  
 : PRIOR FILING DATE: 1997-06-16  
 : PRIOR APPLICATION NUMBER: 60/062250  
 : PRIOR FILING DATE: 1997-10-17

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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLWQVTVHHHTWNAITLLPPVYITAOVWILCAIAAASAGPQNCPSVCSNQSQKV 60  
DB 1 MKLLWQVTVHHHTWNAITLLPPVYITAOVWILCAIAAASAGPQNCPSVCSNQSQKV 60  
QY 61 CTRRGLSEVPQGISNTRYLNMENNIOIQTADTFRLHHLHVLQGRNSIRQIEVGA 120  
DB 61 CTRRGLSEVPQGISNTRYLNMENNIOIQTADTFRLHHLHVLQGRNSIRQIEVGA 120  
QY 121 GLASINLELFDNWLTVIPSGAREYLSKRELMENNPISIPSYAFNRVPSLMRLDGE 180  
DB 121 GLASINLELFDNWLTVIPSGAREYLSKRELMENNPISIPSYAFNRVPSLMRLDGE 180  
QY 181 LKLEYISEGAFEGFLFKLVINLQMCNIDKMPNLTPLVGLLEEMSCNHPPEIRPGSFHG 240  
DB 181 LKLEYISEGAFEGFLFKLVINLQMCNIDKMPNLTPLVGLLEEMSCNHPPEIRPGSFHG 240  
QY 241 LSSKKLVWVNSQVSLIERNAFDGLASVELNLAHNNLSLPHDLFTPLRYLVELHLLHN 300  
DB 241 LSSKKLVWVNSQVSLIERNAFDGLASVELNLAHNNLSLPHDLFTPLRYLVELHLLHN 300  
QY 301 PWCDCDILMLAWLREYIPTNSTCCGCHAPMGRGYLVVEVDQASFQCSAPFIMDAPR 360  
DB 301 PWCDCDILMLAWLREYIPTNSTCCGCHAPMGRGYLVVEVDQASFQCSAPFIMDAPR 360  
QY 361 DLNISEGRMAELKCRTPPMSSVQVLLPNGTVLSHSHPRISVYLDGTLNFSHVLLSDTG 420  
DB 361 DLNISEGRMAELKCRTPPMSSVQVLLPNGTVLSHSHPRISVYLDGTLNFSHVLLSDTG 420  
QY 421 VYTCMVTVNAGNSASAYLVNSTAELNYSYPTTVVETTEISPEDITTKYKVPVPTS 480  
DB 421 VYTCMVTVNAGNSASAYLVNSTAELNYSYPTTVVETTEISPEDITTKYKVPVPTS 480  
QY 481 TGYQPAYTTSTTVLIQITTRVPKQVAVEPATDITDMQTSLEDEWMTTKIIIGCFVAVTLLA 540  
DB 481 TGYQPAYTTSTTVLIQITTRVPKQVAVEPATDITDMQTSLEDEWMTTKIIIGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQRSTVTAARTVELIOVDEDI PAATSAATAAPSGVSGEAVVLP 600  
DB 541 AAMLIVFYKLRKHQRSTVTAARTVELIOVDEDI PAATSAATAAPSGVSGEAVVLP 600  
QY 601 IHDLINYNATYKPAHGAHWTENSLGNSLHPTVTITSEBPYIIQTHTKQVQETQI 653  
DB 601 IHDLINYNATYKPAHGAHWTENSLGNSLHPTVTITSEBPYIIQTHTKQVQETQI 653

RESULT 32  
US-09-991-157-229  
; Sequence 229, Application US/09991157  
; Publication No. US20030049638A1  
; GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Sotstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kijavits, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 FILE REFERENCE: P2730P1C51  
 CURRENT FILING DATE: 2001-11-16  
 PRIOR APPLICATION NUMBER: US/09/991,157  
 PRIOR FILING DATE: 1997-06-16  
 PRIOR APPLICATION NUMBER: 60/049787  
 PRIOR FILING DATE: 1997-06-16  
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 PRIOR FILING DATE: 1998-06-04

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 PRIOR FILING DATE: 1998-06-23  
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PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. i.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MKLLQVTHHTWNAILLPVYLTQVWILCAIAAASAGPNCPSVCSNQSFKV 60  
1 MKLLQVTHHTWNAILLPVYLTQVWILCAIAAASAGPNCPSVCSNQSFKV 60  
61 CTRGSLSEVPQIPNTRYLNMENNIIQMIQADTFRLHLHLVLQGRNSIRQIEVGAFN 120  
61 CTRGSLSEVPQIPNTRYLNMENNIIQMIQADTFRLHLHLVLQGRNSIRQIEVGAFN 120  
121 GLASLNTLELFDNMLTVTPSGAFEYLSKRLBLRNPNPIESIPYAFNRVPSLNRDLGE 180  
121 GLASLNTLELFDNMLTVTPSGAFEYLSKRLBLRNPNPIESIPYAFNRVPSLNRDLGE 180  
181 LKXLEYISGAFEGFLNKLNLGKNCNKDMPNLTPLVLGLSELEMSGNHPPPIRPGSFHG 240  
181 LKXLEYISGAFEGFLNKLNLGKNCNKDMPNLTPLVLGLSELEMSGNHPPPIRPGSFHG 240  
241 LSSLKKLWVMSQVSLIERNAFDGLASLVELNLAHNLSLPHDLFTPLRYLYVELHLHN 300

Db 241 LSSLKKLWVMSQVSLIERNAFDGLASLVELNLAHNLSLPHDLFTPLRYLYVELHLHN 300  
Qy 301 PWCDDCDILWLAWLREYIPTNSTCGRCHAPMHEGRYLVVEVDQASFOCSAPFINDAPR 360  
Db 301 PWCDDCDILWLAWLREYIPTNSTCGRCHAPMHEGRYLVVEVDQASFOCSAPFINDAPR 360  
Qy 361 DLNISGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRHPRIISVLDGTLNFSHVLLSDTG 420  
Db 361 DLNISGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRHPRIISVLDGTLNFSHVLLSDTG 420  
Qy 421 VYTCMTNVAAGNSNAYLNVSTAEINTSNYSFFTVTVTEITEISPEDTTRKYKVPVPTS 480  
Db 421 VYTCMTNVAAGNSNAYLNVSTAEINTSNYSFFTVTVTEITEISPEDTTRKYKVPVPTS 480  
Qy 481 TGQPAYTTSTTVLIQTTRVPKQVAPVADTTDDKMTSLDEVMKTKIIGCFVAVTLLA 540  
Db 481 TGQPAYTTSTTVLIQTTRVPKQVAPVADTTDDKMTSLDEVMKTKIIGCFVAVTLLA 540  
Qy 541 AMLIIVEYKLRKHQORSTVTAARTVEIIQVDEDDIPAATAAAPSQVSGEGAVVLP 600  
Db 541 AMLIIVEYKLRKHQORSTVTAARTVEIIQVDEDDIPAATAAAPSQVSGEGAVVLP 600  
Qy 601 IHDHINYNTYKPAHGAHWNTENSLSLHPTVTTTISBPYIIQTHTKDKVORTQI 653  
Db 601 IHDHINYNTYKPAHGAHWNTENSLSLHPTVTTTISBPYIIQTHTKDKVORTQI 653

RESULT 33  
US-09-997-514-229  
; Sequence 229, Application US/09997514  
; Publication No. US20030049681A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tomas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730P1C46  
; CURRENT APPLICATION NUMBER: US/09/997,514  
; CURRENT FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/065186  
; PRIOR FILING DATE: 1997-11-12  
; PRIOR APPLICATION NUMBER: 60/065311  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: 60/066770  
; PRIOR FILING DATE: 1997-11-24  
; PRIOR APPLICATION NUMBER: 60/075945

1 PRIOR FILING DATE: 1998-02-25  
2 PRIOR APPLICATION NUMBER: 60/078910  
3 PRIOR FILING DATE: 1998-03-20  
4 PRIOR APPLICATION NUMBER: 60/083322  
5 PRIOR FILING DATE: 1998-04-28  
6 PRIOR APPLICATION NUMBER: 60/084600  
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18 PRIOR APPLICATION NUMBER: 60/088021  
19 PRIOR FILING DATE: 1998-06-04  
20 PRIOR APPLICATION NUMBER: 60/088025  
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 PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 1 MKLLWQVTHHTWNAALLPFVYLTQWILCAATAAASAGPQNCPSVCSNPFVKV 60  
 b 1 MKLLWQVTHHTWNAALLPFVYLTQWILCAATAAASAGPQNCPSVCSNPFVKV 60  
 Y 61 CTRRGLSEVPQGPISNTRYLNLMNENIOMIQADTFPHLHLEVLQGRNSIRQIEVGAFN 120  
 b 61 CTRRGLSEVPQGPISNTRYLNLMNENIOMIQADTFPHLHLEVLQGRNSIRQIEVGAFN 120  
 Y 121 GLASINTLELFDWLTVIPSGAFYLSKRLWLNPNPIESTPSYAFNRVPSLMELDLGE 180  
 b 121 GLASINTLELFDWLTVIPSGAFYLSKRLWLNPNPIESTPSYAFNRVPSLMELDLGE 180  
 Y 181 LKLEVISGAPGLFNKYLNLGMCNIDKMPNLTPVLGLELEMSGNHFPBIRPGSPHG 240  
 b 181 LKLEVISGAPGLFNKYLNLGMCNIDKMPNLTPVLGLELEMSGNHFPBIRPGSPHG 240  
 Y 241 LSLKLLWVNSQVSLIERNAPDGLASIVELNLNLSLPHDLFTPLRYLVEHLHSHN 300  
 b 241 LSLKLLWVNSQVSLIERNAPDGLASIVELNLNLSLPHDLFTPLRYLVEHLHSHN 300  
 Y 301 PNCDCDILWLAWLREYIPTNSTCCGRCHAPNMGGRVYLVEVDQASFOCSAPFTMDAPR 360  
 b 301 PNCDCDILWLAWLREYIPTNSTCCGRCHAPNMGGRVYLVEVDQASFOCSAPFTMDAPR 360  
 Y 361 DLNISEGRMAELKCRTPPMSSVKWMLPNCFTVLSHARRHPRI SVANDGTINTSEVLLSDTG 420  
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 Y 421 VYTCMTNVAGNSNAYLNVSTAEINTSNYSFFTTVTVEITEISPEDTRKYKVPVPTS 480  
 b 421 VYTCMTNVAGNSNAYLNVSTAEINTSNYSFFTTVTVEITEISPEDTRKYKVPVPTS 480  
 Y 481 TGQOPAYTSTTVLIQTTRVPKQVAVPATDITDKMOTSLDEVMKTKIIIGCFVAVTLLA 540  
 b 481 TGQOPAYTSTTVLIQTTRVPKQVAVPATDITDKMOTSLDEVMKTKIIIGCFVAVTLLA 540  
 Y 541 AAMLIYFKLRKHQRSTVTAARTVEIIQVDEIDIPAAATSAATAAPSGVSGEAVLPT 600  
 b 541 AAMLIYFKLRKHQRSTVTAARTVEIIQVDEIDIPAAATSAATAAPSGVSGEAVLPT 600  
 Y 601 IHDHINNTYKPAHGAHWNTENSIGNSLHPTVTITISBPYIIQHTKDKVQETQI 653  
 b 601 IHDHINNTYKPAHGAHWNTENSIGNSLHPTVTITISBPYIIQHTKDKVQETQI 653

RESULT 34

US-09-997-573-229

Sequence 229, Application US/09997573

Publication No. US20030049682A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kljavin, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
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 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730PIC45  
 CURRENT APPLICATION NUMBER: US/09/997,573  
 CURRENT FILING DATE: 2001-11-15  
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;
Best Local Similarity 100.0%; Pred. No. 1.2e-293;
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 M K L L Q V T V H H T W N A I L P F V Y L T Q A W I L C A I A A A A S A G P O N C P S V C S C S N Q F S K V V 60
Dd 1 M K L L Q V T V H H T W N A I L P F V Y L T Q A W I L C A I A A A A S A G P O N C P S V C S C S N Q F S K V V 60
Qy 61 C T T R G L S E V P Q G I P S N T R Y L N L M E N N I O M I Q A D T P R H L H L E V L Q I G R N S I R Q I E V G A F N 120
Dd 61 C T T R G L S E V P Q G I P S N T R Y L N L M E N N I O M I Q A D T P R H L H L E V L Q I G R N S I R Q I E V G A F N 120
Qy 121 G L A S L A N T L E L F D N W L T V I P S G A P E Y I S K L R E L W L R N N P I E S P S A F N R V P S I M R L D L G E 180
Dd 121 G L A S L A N T L E L F D N W L T V I P S G A P E Y I S K L R E L W L R N N P I E S P S A F N R V P S I M R L D L G E 180
Qy 181 L K L E Y I S E G A F E L F N L K Y L N L G M C N I K D M P N L T P L V G L E E L E M S G N H F P E I R P G S P H G 240
Dd 181 L K L E Y I S E G A F E L F N L K Y L N L G M C N I K D M P N L T P L V G L E E L E M S G N H F P E I R P G S P H G 240
Qy 241 L S S L K L W M N S Q V S L I E R N A F D G L A S L V E L N A H N L S S L P H D L F T P U R Y L V E L H L H N 300
Dd 241 L S S L K L W M N S Q V S L I E R N A F D G L A S L V E L N A H N L S S L P H D L F T P U R Y L V E L H L H N 300
Qy 301 P W N C D C D I L N A W L R E Y I P T N S T C C R C H A P M E M G R Y L V E V D Q A S F Q C S A P P I M D A P R 360
Dd 301 P W N C D C D I L N A W L R E Y I P T N S T C C R C H A P M E M G R Y L V E V D Q A S F Q C S A P P I M D A P R 360

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QY 361 DNIISGRMAELKCRTPMSSVKLLPNGTVLSSHASRHPRIISVLNDGTLNPSHVLLSDTG 420
Db 361 DNIISGRMAELKCRTPMSSVKLLPNGTVLSSHASRHPRIISVLNDGTLNPSHVLLSDTG 420
QY 421 VTCWTVTVAGNSASAYLNVSTAEALNTSNYSFFTTVTVTETTEISPDITTRKYPVPTTS 480
Db 421 VTCWTVTVAGNSASAYLNVSTAEALNTSNYSFFTTVTVTETTEISPDITTRKYPVPTTS 480
QY 481 TGYQPAYTSTVLIQTTTRVFKQVAVPATDFTDKKQTSLEDVWMTTKLIIIGCPVAVTLLA 540
Db 481 TGYQPAYTSTVLIQTTTRVFKQVAVPATDFTDKKQTSLEDVWMTTKLIIIGCPVAVTLLA 540
QY 541 AAMLIVFYKLARKHQORSTVTAARTVEIIQVDEIDPAATSAATAAPSGVSGEGAVVLP 600
Db 541 AAMLIVFYKLARKHQORSTVTAARTVEIIQVDEIDPAATSAATAAPSGVSGEGAVVLP 600
QY 601 IDHINYNTPYPAHGAHTENSLSLHPTVTITSEPYIIQTHTKDKVQSTQI 653
Db 601 IDHINYNTPYPAHGAHTENSLSLHPTVTITSEPYIIQTHTKDKVQSTQI 653

RESULT 35
US-09-991-172-229
Sequence 229, Application US/09991172
Publication No. US20030050457A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PIC50
CURRENT APPLICATION NUMBER: US/09/991,172
CURRENT FILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
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PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
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; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293; Indels 0; Gaps 0;  
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Db 1 MKLLMQVTVHHHTWNAILLPPFVYLTAAQVMILCAIAAASAGPQNCPSVCSNQSFKV 60  
Qy 61 CTRRGLSEVEQGI PSNTRYLNLMENNIOMIQADTFERHSHLEVQLGRNSIQIEVGA 120  
Db 61 CTRRGLSEVEQGI PSNTRYLNLMENNIOMIQADTFERHSHLEVQLGRNSIQIEVGA 120  
Qy 121 GLASLNTLELFDNWLTVIPSGAFEYLSKLRRLWRNNPIESIPSYAFNRPVPSLMRLD 180  
Db 121 GLASLNTLELFDNWLTVIPSGAFEYLSKLRRLWRNNPIESIPSYAFNRPVPSLMRLD 180  
Qy 181 LKLEYISEGAPGLPNLKYLNIGKCNIKDMPNLTPLVGLLELEMSGNHPPIRPSFG 240  
Db 181 LKLEYISEGAPGLPNLKYLNIGKCNIKDMPNLTPLVGLLELEMSGNHPPIRPSFG 240  
Qy 241 LSSLKKLWNNWNSOVSILERNAPDGLASLVELNLAHNNLSSLPHDLFTPLRYLV 300  
Db 241 LSSLKKLWNNWNSOVSILERNAPDGLASLVELNLAHNNLSSLPHDLFTPLRYLV 300  
Qy 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMHMGRLYVEVDQASFOCSAPFINDAP 360  
Db 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMHMGRLYVEVDQASFOCSAPFINDAP 360  
Qy 361 DMIISGRMAELKCRTPPMSSVKMLLPNGTVLSHSHRPRISVLNDGTILFHVLLSDTG 420  
Db 361 DMIISGRMAELKCRTPPMSSVKMLLPNGTVLSHSHRPRISVLNDGTILFHVLLSDTG 420  
Qy 421 VYTCMTNVNAGNSNAYLNSTAEMLNTSNYSFFTTVTVTETTEISPEDTRKYKPVPT 480  
Db 421 VYTCMTNVNAGNSNAYLNSTAEMLNTSNYSFFTTVTVTETTEISPEDTRKYKPVPT 480  
Qy 481 TGQCPAYTTSTTVLIQTRVPKQVAVPATDTDDKMTSLDEVNKTTLIIIGCFVAVTLL 540  
Db 481 TGQCPAYTTSTTVLIQTRVPKQVAVPATDTDDKMTSLDEVNKTTLIIIGCFVAVTLL 540  
Qy 541 AAMLIYFYKLRKHQRSTVTAARTVEIIQVDEIDIPATSAATAAPSGVSGEGAVLPT 600  
Db 541 AAMLIYFYKLRKHQRSTVTAARTVEIIQVDEIDIPATSAATAAPSGVSGEGAVLPT 600  
Qy 601 IHDHINYNTYKPAHGAHWTEISLGNLHPTVTITSEPIIQTHTKDKVQETQI 653  
Db 601 IHDHINYNTYKPAHGAHWTEISLGNLHPTVTITSEPIIQTHTKDKVQETQI 653

## RESULT 36

US-09-990-726-229  
; Sequence 229, Application US/09990726  
; Publication No. US20030054359A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.

APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC16  
CURRENT APPLICATION NUMBER: US/09/990,726  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
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PRIOR FILING DATE: 1998-03-20  
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PRIOR APPLICATION NUMBER: 60/090542

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;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLQVTVHHTWNAILLPFVYLAQWILCAIAAASAGPQNCPSVCSCSNQFSKV 60  
DB 1 MKLLQVTVHHTWNAILLPFVYLAQWILCAIAAASAGPQNCPSVCSCSNQFSKV 60  
QY 61 CTRRGLESEVQIPSNTRYLNLMENNIQMIQADTFRHLHLVQLGNSIRQIEVGAFN 120  
DB 61 CTRRGLESEVQIPSNTRYLNLMENNIQMIQADTFRHLHLVQLGNSIRQIEVGAFN 120  
QY 121 GLASINTLEFNNLTWIPSGAFYLSKRLWLNNNPIESIPSYAFNRVPSLRLDGE 180  
DB 121 GLASINTLEFNNLTWIPSGAFYLSKRLWLNNNPIESIPSYAFNRVPSLRLDGE 180  
QY 181 LKXLEYISEGAFEGFLNKLNLGNCNKDMPNLTPLVGLEBELEMSGNHFPPIRPGSFHG 240  
DB 181 LKXLEYISEGAFEGFLNKLNLGNCNKDMENLTPLVGLEBELEMSGNHFPPIRPGSFHG 240  
QY 241 LSLKKLWPNQSVSLIERNAPDGLASVELNLAHNNLSLPHDLFPLRYLVLELHLEHN 300  
DB 241 LSLKKLWPNQSVSLIERNAPDGLASVELNLAHNNLSLPHDLFPLRYLVLELHLEHN 300  
QY 301 PNWCDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYLVEDQASFOCSAPFIMDAPR 360  
DB 301 PNWCDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYLVEDQASFOCSAPFIMDAPR 360  
QY 361 DLNISEGRVAELKCRTPPMSSVKLLPNGTVLSHASRHRISVLNDGTLNPSHVLSDTG 420  
DB 361 DLNISEGRVAELKCRTPPMSSVKLLPNGTVLSHASRHRISVLNDGTLNPSHVLSDTG 420  
QY 421 VYTCWTVNAGNSNAYSALNSTABLNTSNYSFFTTVTVEITSPEDTRKYPVPTTS 480  
DB 421 VYTCWTVNAGNSNAYSALNSTABLNTSNYSFFTTVTVEITSPEDTRKYPVPTTS 480

QY 481 TGYQPAYTTSTTVLIQTTTRVPKQVAVPAIDTTDXQVTSLSLDMVKTKTKIIICGFVAVTLLA 540  
DB 481 TGYQPAYTTSTTVLIQTTTRVPKQVAVPAIDTTDXQVTSLSLDMVKTKTKIIICGFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEGAVVLPT 600  
DB 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEGAVVLPT 600  
QY 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTVTIISSEPYIIQTHTKDKVQETQI 653  
DB 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTVTIISSEPYIIQTHTKDKVQETQI 653

RESULT 37

US-09-997-559-229  
; Sequence 229, Application US/09997559  
; Publication NO. US20030054403A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730PIC40  
; CURRENT APPLICATION NUMBER: US/09/997,559  
; CURRENT FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/065186  
; PRIOR FILING DATE: 1997-11-12  
; PRIOR APPLICATION NUMBER: 60/065311  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: 60/066770  
; PRIOR FILING DATE: 1997-11-24  
; PRIOR APPLICATION NUMBER: 60/075945  
; PRIOR FILING DATE: 1998-02-25  
; PRIOR APPLICATION NUMBER: 60/078910  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/083322  
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; PRIOR APPLICATION NUMBER: 60/084600  
; PRIOR FILING DATE: 1998-05-07  
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; PRIOR FILING DATE: 1998-05-28  
; PRIOR APPLICATION NUMBER: 60/087607  
; PRIOR FILING DATE: 1998-06-02  
; PRIOR APPLICATION NUMBER: 60/087609  
; PRIOR FILING DATE: 1998-06-02  
; PRIOR APPLICATION NUMBER: 60/087759

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3	PRIOR APPLICATION NUMBER: 60/089948
4	PRIOR FILING DATE: 1998-06-19
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6	PRIOR FILING DATE: 1998-06-19
7	PRIOR APPLICATION NUMBER: 60/090246
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18	PRIOR FILING DATE: 1998-06-24
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20	PRIOR FILING DATE: 1998-06-24
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22	PRIOR FILING DATE: 1998-06-24
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64	PRIOR FILING DATE: 1998-07-02
65	PRIOR APPLICATION NUMBER: 60/091978
66	PRIOR FILING DATE: 1998-07-07
67	PRIOR APPLICATION NUMBER: 60/091982
68	PRIOR FILING DATE: 1998-07-07
69	PRIOR APPLICATION NUMBER: 60/092182
70	PRIOR FILING DATE: 1998-07-09

Query Match	100.0%;	Score 3440;	DB 11;	Length 653;
Best Local Similarity	100.0%;	Pred. No. 1.2e-293;		

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKLLMQVTHHHTWNAILLPFVYLTAAQWMLCAIAAASAGFQNCPSVCSCSNQFSKV 60  
 Db 1 MKLLMQVTHHHTWNAILLPFVYLTAAQWMLCAIAAASAGFQNCPSVCSCSNQFSKV 60

Qy 61 CTGGLSEVGGIPSPNTRYLNTMNNIOMTADTFHLLHLEVLQIGRNSIRQIEVGAFN 120  
 Db 61 CTGGLSEVGGIPSPNTRYLNTMNNIOMTADTFHLLHLEVLQIGRNSIRQIEVGAFN 120

Qy 121 GLASLNTLEFDNKLTVIPSGAFEYLSKLRELWLRNPNIESIPSAFNRVPSLMELDLGE 180  
 Db 121 GLASLNTLEFDNKLTVIPSGAFEYLSKLRELWLRNPNIESIPSAFNRVPSLMELDLGE 180

Qy 181 LKLEYISEGAPGLFNKYLGNKIMCNKIMDNLTPVGLBLEMSCHHPIRQSGFEG 240  
 Db 181 LKLEYISEGAPGLFNKYLGNKIMCNKIMDNLTPVGLBLEMSCHHPIRQSGFEG 240

Qy 241 LSSLKLLWVNSQVSLIERNAFDGLASLVELNLAHNLSLPHDLFTPLRYLVEHLHLEN 300  
 Db 241 LSSLKLLWVNSQVSLIERNAFDGLASLVELNLAHNLSLPHDLFTPLRYLVEHLHLEN 300

Qy 301 PWCDCDILWAWLREYIPNTSCCGRCHAPMHMERGRVLEVDQASFOCSAPFTMDAPR 360  
 Db 301 PWCDCDILWAWLREYIPNTSCCGRCHAPMHMERGRVLEVDQASFOCSAPFTMDAPR 360

Qy 361 DLNISEGRMAELKCRTPPMSSVXWLLPNGTVLSHSHRHPRIQVLDGTLNFSHVLLSDTG 420  
 Db 361 DLNISEGRMAELKCRTPPMSSVXWLLPNGTVLSHSHRHPRIQVLDGTLNFSHVLLSDTG 420

Qy 421 VYTCMTNVAGNSNAYSALNVSTAEINTSNYSFPTVTVEIISPEDTRKYKVPPTTS 480  
 Db 421 VYTCMTNVAGNSNAYSALNVSTAEINTSNYSFPTVTVEIISPEDTRKYKVPPTTS 480

Qy 481 TGQPAYTSTTVLIQTRVFKGVAPATDTDKMOTSLDEWVKTKIILGCFVAVTLLA 540  
 Db 481 TGQPAYTSTTVLIQTRVFKGVAPATDTDKMOTSLDEWVKTKIILGCFVAVTLLA 540

Qy 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIDPAATSAATAAPSGVSEGAVALPT 600  
 Db 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIDPAATSAATAAPSGVSEGAVALPT 600

Qy 601 IHGHINVTYKPAHGAHWNTENSLGNSLHPTVTIISPEYIIQTHTKDKVQETQI 653  
 Db 601 IHGHINVTYKPAHGAHWNTENSLGNSLHPTVTIISPEYIIQTHTKDKVQETQI 653

RESULT 38

US-09-997-601-229

Sequence 229, Application US/09997601

Publication No. US2003003404A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
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 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
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 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kljavin, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas P.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730PIC36  
 CURRENT APPLICATION NUMBER: US/09/997,601  
 CURRENT FILING DATE: 2001-11-15  
 PRIOR APPLICATION NUMBER: 60/049787  
 PRIOR FILING DATE: 1997-06-16  
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PRIOR APPLICATION NUMBER: 60/089440  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089512  
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PRIOR APPLICATION NUMBER: 60/089514  
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PRIOR APPLICATION NUMBER: 60/089532  
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1 PRIOR APPLICATION NUMBER: 60/090690  
2 PRIOR FILING DATE: 1998-06-25  
3 PRIOR APPLICATION NUMBER: 60/090694  
4 PRIOR FILING DATE: 1998-06-25  
5 PRIOR APPLICATION NUMBER: 60/090695  
6 PRIOR FILING DATE: 1998-06-25  
7 PRIOR APPLICATION NUMBER: 60/090696  
8 PRIOR FILING DATE: 1998-06-25  
9 PRIOR APPLICATION NUMBER: 60/090862  
10 PRIOR FILING DATE: 1998-06-26  
11 PRIOR APPLICATION NUMBER: 60/090863  
12 PRIOR FILING DATE: 1998-06-26  
13 PRIOR APPLICATION NUMBER: 60/091360  
14 PRIOR FILING DATE: 1998-07-01  
15 PRIOR APPLICATION NUMBER: 60/091478  
16 PRIOR FILING DATE: 1998-07-02  
17 PRIOR APPLICATION NUMBER: 60/091544  
18 PRIOR FILING DATE: 1998-07-01  
19 PRIOR APPLICATION NUMBER: 60/091519  
20 PRIOR FILING DATE: 1998-07-02  
21 PRIOR APPLICATION NUMBER: 60/091626  
22 PRIOR FILING DATE: 1998-07-02  
23 PRIOR APPLICATION NUMBER: 60/091633  
24 PRIOR FILING DATE: 1998-07-02  
25 PRIOR APPLICATION NUMBER: 60/091978  
26 PRIOR FILING DATE: 1998-07-07  
27 PRIOR APPLICATION NUMBER: 60/091982  
28 PRIOR FILING DATE: 1998-07-07  
29 PRIOR APPLICATION NUMBER: 60/092182  
30 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKLLQVTVHEHTWNAILLFFVYLTAQVWILCAIAAASAGPQNCPSVCSCSNQPSKV 60  
Db 1 MKLLQVTVHEHTWNAILLFFVYLTAQVWILCAIAAASAGPQNCPSVCSCSNQPSKV 60

Qy 61 CTRGLSEVPQGIPTNRYLNMENNIOQADTFPHLHLEVLQGRNSIROIEVGA 120  
Db 61 CTRGLSEVPQGIPTNRYLNMENNIOQADTFPHLHLEVLQGRNSIROIEVGA 120

Qy 121 GLASLNTLELFDNWLTVIPSGAFYLSKRLWRNPNIESIPSYAFNRVPSLMRLDGE 180  
Db 121 GLASLNTLELFDNWLTVIPSGAFYLSKRLWRNPNIESIPSYAFNRVPSLMRLDGE 180

Qy 181 LKLEYISEGAFEGFLFNLYNLGMCNKIDMPNLTPLVGLLELEMSGNHPPETIRPQSPHG 240  
Db 181 LKLEYISEGAFEGFLFNLYNLGMCNKIDMPNLTPLVGLLELEMSGNHPPETIRPQSPHG 240

Qy 241 LSSLLKLWVNSQVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300  
Db 241 LSSLLKLWVNSQVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300

Qy 301 PWNCCDILMLAWLREYIPTNSTCCGRCHAPMHMRGRYLVEVDQASQCSAPFIMDAPR 360  
Db 301 PWNCCDILMLAWLREYIPTNSTCCGRCHAPMHMRGRYLVEVDQASQCSAPFIMDAPR 360

Qy 361 DLNISEGRMAELKCRTPPMSSVWMLLPNGFVLSHARRPRI SVLNDGTINFSHVLSDTG 420  
Db 361 DLNISEGRMAELKCRTPPMSSVWMLLPNGFVLSHARRPRI SVLNDGTINFSHVLSDTG 420

Qy 421 VYTCMVTVNAGNSNAYLANVSTAELNTSNYSFFTIVTVETTEISPEDTTRYKVPPTTS 480  
Db 421 VYTCMVTVNAGNSNAYLANVSTAELNTSNYSFFTIVTVETTEISPEDTTRYKVPPTTS 480

Qy 481 TGYQPAYTTSITVLIQTTRVPKQVAPATDTTDRKQTSLSDEVNKTIIIGCFVAVTLA 540  
Db 481 TGYQPAYTTSITVLIQTTRVPKQVAPATDTTDRKQTSLSDEVNKTIIIGCFVAVTLA 540

Qy 541 AAMLVIFYKLRKHQRSTVTAARTVEIICQVEDIPAAATSAATAAPSGVSGEAVLPT 600  
Db 541 AAMLVIFYKLRKHQRSTVTAARTVEIICQVEDIPAAATSAATAAPSGVSGEAVLPT 600

D5 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIPAAATSAATAAPSGVGCAVVLPT 600

OY 601 IHDIHINVTYKPAHGAHWTEISLGNLSLHPTVTTTISEPVIIOHTKDKVQETQI 653

D5 601 IHDIHINVTYKPAHGAHWTEISLGNLSLHPTVTTTISEPVIIOHTKDKVQETQI 653

RESULT 39

US-09-990-443-229  
Sequence 229, Application US/09990443  
Publication No. US20030054987A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tamas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

Acids Encoding the Same

FILE REFERENCES: P2730P1C12

CURRENT APPLICATION NUMBER: US/09/990,443

PRIOR FILING DATE: 2001-11-14

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

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PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
y 1 M K L L M Q V T V H H T W N A I L P F V Y L T A Q V W I L C A A I A A A S A G F Q N C P S V C S C N Q F S K V 60  
b 1 M K L L M Q V T V H H T W N A I L P F V Y L T A Q V W I L C A A I A A A S A G F Q N C P S V C S C N Q F S K V 60  
y 61 C T T R G L S E V F Q G I P S N T R Y L N L M E N N I Q M I Q A D T F R H L H L E V I Q L G R N S I R Q I E V G A F N 120

Db 61 C T T R G L S E V F Q G I P S N T R Y L N L M E N N I Q M I Q A D T F R H L H L E V I Q L G R N S I R Q I E V G A F N 120  
Qy 121 G L A S I N T L E L F D N W L T V I P S G A F E Y L S K L R E L W R N N P I E S P S Y A F N R V P S L M R L D L G E 180  
Db 121 G L A S I N T L E L F D N W L T V I P S G A F E Y L S K L R E L W R N N P I E S P S Y A F N R V P S L M R L D L G E 180  
Qy 181 L K L E Y I S E G A F G L F N L K Y L N L C M C N I K D M P N L T P L V G L E E L E M S G N H P P E I R P G S F H G 240  
Db 181 L K L E Y I S E G A F G L F N L K Y L N L C M C N I K D M P N L T P L V G L E E L E M S G N H P P E I R P G S F H G 240  
Qy 241 L S S L K L W N V N S Q V S L I E R N A F D G L A S L V E L A N L A H N N L S S L P H D L F T P L R Y L V E L H L H N 300  
Db 241 L S S L K L W N V N S Q V S L I E R N A F D G L A S L V E L A N L A H N N L S S L P H D L F T P L R Y L V E L H L H N 300  
Qy 301 F W N C D C D I L W A W N L R E Y I P T N S T C C G R C H A P H M M G R Y L V E V D Q A S F Q C S A P P I M D A P R 360  
Db 301 F W N C D C D I L W A W N L R E Y I P T N S T C C G R C H A P H M M G R Y L V E V D Q A S F Q C S A P P I M D A P R 360  
Qy 361 D L A I S E G R M A E L K R T P P M S S V K W L L P N G T V L S H A S R H P R I S V I N D G T I L N F S H V L S D T G 420  
Db 361 D L A I S E G R M A E L K R T P P M S S V K W L L P N G T V L S H A S R H P R I S V I N D G T I L N F S H V L S D T G 420  
Qy 421 V Y T C M V T N V A G N S N A S A Y L N V S T A E L N T S N Y S G F T T V T V E T T E I S P E D T T R K Y K P V P T T S 480  
Db 421 V Y T C M V T N V A G N S N A S A Y L N V S T A E L N T S N Y S G F T T V T V E T T E I S P E D T T R K Y K P V P T T S 480  
Qy 481 T G Q P A Y T T S T T V L I Q T T R V P K O V A P A T D T T D K M Q T S L D E V N K T T K I I I G C F V A V T L L A 540  
Db 481 T G Q P A Y T T S T T V L I Q T T R V P K O V A P A T D T T D K M Q T S L D E V N K T T K I I I G C F V A V T L L A 540  
Qy 541 A A M L I V F Y K L R K R H Q R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V V L P T 600  
Db 541 A A M L I V F Y K L R K R H Q R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V V L P T 600  
Qy 501 I H D H I N Y N T Y K P A G A H W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653  
Db 601 I H D H I N Y N T Y K P A G A H W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653

RESULT 40  
US-09-991-854-229  
; Sequence 229, Application US/09991854  
; Publication No. US20030059780A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tamas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730PIC24  
; CURRENT APPLICATION NUMBER: US/09/991,854



PRIOR APPLICATION NUMBER: 60/089103	PRIOR FILING DATE: 1998-06-12	PRIOR APPLICATION NUMBER: 60/089440	PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/089512	PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/089514	PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/089532	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089538	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089598	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089599	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089599	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089600	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089652	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089801	PRIOR FILING DATE: 1998-06-18	PRIOR APPLICATION NUMBER: 60/089907	PRIOR FILING DATE: 1998-06-18	PRIOR APPLICATION NUMBER: 60/089908	PRIOR FILING DATE: 1998-06-18	PRIOR APPLICATION NUMBER: 60/089947	PRIOR FILING DATE: 1998-06-19	PRIOR APPLICATION NUMBER: 60/089948	PRIOR FILING DATE: 1998-06-19	PRIOR APPLICATION NUMBER: 60/089952	PRIOR FILING DATE: 1998-06-19	PRIOR APPLICATION NUMBER: 60/090246	PRIOR FILING DATE: 1998-06-22	PRIOR APPLICATION NUMBER: 60/090252	PRIOR FILING DATE: 1998-06-22	PRIOR APPLICATION NUMBER: 60/090254	PRIOR FILING DATE: 1998-06-22	PRIOR APPLICATION NUMBER: 60/090349	PRIOR FILING DATE: 1998-06-23	PRIOR APPLICATION NUMBER: 60/090355	PRIOR FILING DATE: 1998-06-23	PRIOR APPLICATION NUMBER: 60/090429	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090431	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090435	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090444	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090445	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090472	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090535	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090540	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090542	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090557	PRIOR FILING DATE: 1998-06-24	PRIOR APPLICATION NUMBER: 60/090676	PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090678	PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090690	PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090694	PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090695	PRIOR FILING DATE: 1998-06-25	PRIOR APPLICATION NUMBER: 60/090696	PRIOR FILING DATE: 1998-06-25
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PRIOR FILING DATE: 1998-06-25
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PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091360
PRIOR FILING DATE: 1998-07-01
PRIOR APPLICATION NUMBER: 60/091478
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091544
PRIOR FILING DATE: 1998-07-01
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PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091633
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/091978
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/091982
PRIOR FILING DATE: 1998-07-07
PRIOR APPLICATION NUMBER: 60/092182
PRIOR FILING DATE: 1998-07-09

Query Match      100.0%; Score 3440; DB 13; Length 653;
Best Local Similarity 100.0%; Pred. No. 1.2e-293;
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 1 M K L L Q V T V H H T W N A I L P F V Y L T A Q W I L C A I A A A S A G F Q C P S V C S C S N O F S K V 60
b 1 M K L L Q V T V H H T W N A I L P F V Y L T A Q W I L C A I A A A S A G F Q C P S V C S C S N O F S K V 60

Y 61 C T T R G L S E V F Q G I P S N T R Y L N L M E N N I Q M I Q A D T F R L H L H L E V L Q L G R N S I R Q I E V G A F N 120
b 61 C T T R G L S E V F Q G I P S N T R Y L N L M E N N I Q M I Q A D T F R L H L H L E V L Q L G R N S I R Q I E V G A F N 120

Y 121 G L A S L A N T L E F D N W L T V I P S G A F E Y L S K R E L W L R N N P L E S T P S V A F N R V P S L M E L D L G E 180
b 121 G L A S L A N T L E F D N W L T V I P S G A F E Y L S K R E L W L R N N P L E S T P S V A F N R V P S L M E L D L G E 180

Y 181 L K L E V I S E G A F G L F N L K Y L N L G M C N I K D M P N L T P L V G L E B L E M S G N H F P I R P G S F H G 240
b 181 L K L E V I S E G A F G L F N L K Y L N L G M C N I K D M P N L T P L V G L E B L E M S G N H F P I R P G S F H G 240

Y 241 L S S L K L W M N S Q V S L I E R N A P D G L A S L V E L N L A H N L S S L P H D L F T P L R Y L V E L H L H N 300
b 241 L S S L K L W M N S Q V S L I E R N A P D G L A S L V E L N L A H N L S S L P H D L F T P L R Y L V E L H L H N 300

Y 301 P M N C D C D I L W A W L R E Y I P T N S T C C G R C H A P M H M E G R Y L V E V D Q A S F Q C S A P F I M D A P R 360
b 301 P M N C D C D I L W A W L R E Y I P T N S T C C G R C H A P M H M E G R Y L V E V D Q A S F Q C S A P F I M D A P R 360

Y 361 D L N I S E R M A E L K C R T P P M S S V K L L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420
b 361 D L N I S E R M A E L K C R T P P M S S V K L L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420

Y 421 V Y T C M T N V A G N S A Y L N V S T A B L N T S N F F T V T V E T T E I S P E D T T R Y K V P T T S 480
b 421 V Y T C M T N V A G N S A Y L N V S T A B L N T S N F F T V T V E T T E I S P E D T T R Y K V P T T S 480

Y 481 T G Y Q P A Y T T S T V L I Q T T R V P K V A P A T D T T D K M Q T S L D E V M K T T K I I G C F V A V T L L A 540
b 481 T G Y Q P A Y T T S T V L I Q T T R V P K V A P A T D T T D K M Q T S L D E V M K T T K I I G C F V A V T L L A 540

Y 541 A A M L I V F Y K L R K H Q O R S T V T A A R T V E I I Q V E D I P A A T S A A T A A P S G V S G E G A V L P T 600
b 541 A A M L I V F Y K L R K H Q O R S T V T A A R T V E I I Q V E D I P A A T S A A T A A P S G V S G E G A V L P T 600

Y 601 I H D H I N T Y K P A G A R H T E N S I G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653
b 601 I H D H I N T Y K P A G A R H T E N S I G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653

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RESULT 41
US-09-997-628-229
; Sequence 229, Application US/09997628
; Publication No. US20030059782A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C30
; CURRENT APPLICATION NUMBER: US/09/997,628
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
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; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030

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PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
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PRIOR FILING DATE: 1998-07-02  
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PRIOR FILING DATE: 1998-07-02  
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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLLAQVTHHTWNAILLPVYLTQAQWILCAIAAASAGPQNCPSVCSNQSXV 60  
DB 1 MLLAQVTHHTWNAILLPVYLTQAQWILCAIAAASAGPQNCPSVCSNQSXV 60  
QY 61 CTRGLSEVPQGISNTRYLNLMENNIQIADTFPHLHLEVLQGRNSIRQIEVGAFN 120  
DB 61 CTRGLSEVPQGISNTRYLNLMENNIQIADTFPHLHLEVLQGRNSIRQIEVGAFN 120  
QY 121 GLASLNTLELFDNWLTVIPSGAFYLSKRLMNNPIESIPSYAFNRVPSLMRLDGE 180  
DB 121 GLASLNTLELFDNWLTVIPSGAFYLSKRLMNNPIESIPSYAFNRVPSLMRLDGE 180

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181 LKKLEYISEGAEGFLNFKYLNLCNCKMPNLTPLVGLEELMSGNHPEIRPGSFHG 240
181 LKKLEYISEGAEGFLNFKYLNLCNCKMPNLTPLVGLEELMSGNHPEIRPGSFHG 240
241 LSSIKKLWNNQSVSLIERNAPDGLASIVELNLAHNNLSLPHDLFTPLRYLVHLHLHN 300
241 LSSIKKLWNNQSVSLIERNAPDGLASIVELNLAHNNLSLPHDLFTPLRYLVHLHLHN 300
301 PNWCDDILWLAWLREIPIPTNSTCCGCHAPMGRGYLVEVDQASFOCSAPFIMDAPR 360
301 PNWCDDILWLAWLREIPIPTNSTCCGCHAPMGRGYLVEVDQASFOCSAPFIMDAPR 360
361 DLNISEGRMAELKCRTPWSSVKMLLPNGTVLSKASHRPRISVLMDGTLNPSHYLLSDTG 420
361 DLNISEGRMAELKCRTPWSSVKMLLPNGTVLSKASHRPRISVLMDGTLNPSHYLLSDTG 420
421 VYTCWMTNAGNSASAYLNSTASLNTSNYSFFTTVTVEITSEIPDTRKXKVPVPTS 480
421 VYTCWMTNAGNSASAYLNSTASLNTSNYSFFTTVTVEITSEIPDTRKXKVPVPTS 480
481 TGYQPAYTITSTVLQITRVPRQVAVPATDITDKMOTSLDEVMKTKIIIGCFVAVTLLA 540
481 TGYQPAYTITSTVLQITRVPRQVAVPATDITDKMOTSLDEVMKTKIIIGCFVAVTLLA 540
541 AAMLVFKYLRKHQRSTVTHARTVEIIQVDEDIIPAATSAATAAPSGVSGGAVVLPT 600
541 AAMLVFKYLRKHQRSTVTHARTVEIIQVDEDIIPAATSAATAAPSGVSGGAVVLPT 600
601 IHDHINNTYKPAHGAHTWNSLNSLHPTVTITSEPIIIOHTKOKVQETQI 653
601 IHDHINNTYKPAHGAHTWNSLNSLHPTVTITSEPIIIOHTKOKVQETQI 653

RESULT 42
3-09-997-683-229
Sequence 229, Application US/09997683
Publication No. US20030059783A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Den L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kiljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same
FILE REFERENCE: P27302IC32
CURRENT FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12

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PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066770
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
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PRIOR FILING DATE: 1998-04-28
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;; PRIOR APPLICATION NUMBER: 60/091978  
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;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;

Best Local Similarity 100.0%; Pred. No. 1.2e-293;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLQVTVHHTWNAILLPFVYLTQVWILCAIAAASAGPQNCPSVCSNQSKVV 60  
DB 1 MKLLQVTVHHTWNAILLPFVYLTQVWILCAIAAASAGPQNCPSVCSNQSKVV 60  
QY 61 CTRRGLSEVPQIIPSNTRYLNLMMENNIQMIQADTFRHLHLEVLQLCGRNSIROIEVGAFN 120  
DB 61 CTRRGLSEVPQIIPSNTRYLNLMMENNIQMIQADTFRHLHLEVLQLCGRNSIROIEVGAFN 120  
QY 121 GLASLNTLELFDNMILTVPSCAFEYLSKLRELNRNPIESISYAFNRVPSLMRLDLGE 180  
DB 121 GLASLNTLELFDNMILTVPSCAFEYLSKLRELNRNPIESISYAFNRVPSLMRLDLGE 180  
QY 181 LKLEVIYISEGAFEGFLNLYLNLGMCNKKMPNLTPLVGLSELEMSGNHPPPIRPGSPFHG 240  
DB 181 LKLEVIYISEGAFEGFLNLYLNLGMCNKKMPNLTPLVGLSELEMSGNHPPPIRPGSPFHG 240  
QY 241 ISSLKLWVMSQVSLIERNAFDGLASLVELNLAHNLSLPHDLTPPLRYLYVELHLHN 300  
DB 241 USSLKLWVMSQVSLIERNAFDGLASLVELNLAHNLSLPHDLTPPLRYLYVELHLHN 300  
QY 301 PNWCDCDILWLAWMLREYIPTNSTCCGRCHAPMHMGRYLVVEVDQASFOCSAPFIMDAPR 360  
DB 301 PNWCDCDILWLAWMLREYIPTNSTCCGRCHAPMHMGRYLVVEVDQASFOCSAPFIMDAPR 360  
QY 361 DLIISSEGRMAELKCRTPPMSVXWLLPNGTVLSHASEHPRISVLNDGTINFSHVLLSDTG 420  
DB 361 DLIISSEGRMAELKCRTPPMSVXWLLPNGTVLSHASEHPRISVLNDGTINFSHVLLSDTG 420  
QY 421 VYTCWTVWAGNSASAYLNVSTAEINTSNYSFPTTVTVEITEISPEDTRKYKVPPTTS 480  
DB 421 VYTCWTVWAGNSASAYLNVSTAEINTSNYSFPTTVTVEITEISPEDTRKYKVPPTTS 480  
QY 481 TGYQPAYTISTTVLIQTRVPKQVAPATDTTKMOTSLDEVNKTTKIILGCFVAVTLIA 540  
DB 481 TGYQPAYTISTTVLIQTRVPKQVAPATDTTKMOTSLDEVNKTTKIILGCFVAVTLIA 540  
QY 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEBDIPAATAAATAAPSGVSGEAVLPT 600  
DB 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEBDIPAATAAATAAPSGVSGEAVLPT 600  
QY 601 IHDHINVTYKPAEGAHWTENSLSHPTVTITISPYLIQTHTKDKVORTOI 653  
DB 601 IHDHINVTYKPAEGAHWTENSLSHPTVTITISPYLIQTHTKDKVORTOI 653

# RESULT 43

US-09-989-729A-229  
; Sequence 229, Application US/09989729A  
; Publication No. US20030059831A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary B.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C59  
CURRENT APPLICATION NUMBER: US/09/989,729A  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607  
PRIOR FILING DATE: 1998-06-02  
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PRIOR FILING DATE: 1998-06-02  
PRIOR APPLICATION NUMBER: 60/087827  
PRIOR FILING DATE: 1998-06-03  
PRIOR APPLICATION NUMBER: 60/088021  
PRIOR FILING DATE: 1998-06-04  
PRIOR APPLICATION NUMBER: 60/088025  
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PRIOR FILING DATE: 1998-06-22  
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PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090355  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090429  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090431  
PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090435

Query Match	100.0%;	Score 3440;	DB 11;	Length 653;
Best Local Similarity	100.0%;	Pred. No. 1.2e-293;		
Matches 653;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
1	MKLLWQVTVHHHTWNAILLPFVYLTAQWVILCAIAAAASAGPQNCPSVCSCSNQPSKV 60			
1	MKLLWQVTVHHHTWNAILLPFVYLTAQWVILCAIAAAASAGPQNCPSVCSCSNQPSKV 60			
61	CTRGLSEVPQGPSNTRYINLMENNIQWIQADTFRHLLHLEVLQIGRNSIQIEVGFN 120			
61	CTRGLSEVPQGPSNTRYINLMENNIQWIQADTFRHLLHLEVLQIGRNSIQIEVGFN 120			
121	GLASLNTLELFDNWLTVIPSGAFEYLSKRLRLTNLPNPIESIPSYAFNRVPSLMRLDLGE 180			
121	GLASLNTLELFDNWLTVIPSGAFEYLSKRLRLTNLPNPIESIPSYAFNRVPSLMRLDLGE 180			
181	LKLEYLISEGAPGLFNLYINLGMCNKDMNPNTPLNGLEELSEMSGNHPEIRPSGFH 240			
181	LKLEYLISEGAPGLFNLYINLGMCNKDMNPNTPLNGLEELSEMSGNHPEIRPSGFH 240			
241	LSSLKCLWVWNSQVSIETARNADGLASIVELNLAHNLSLPHDLFTPLLYVELLHFN 300			
241	LSSLKCLWVWNSQVSIETARNADGLASIVELNLAHNLSLPHDLFTPLLYVELLHFN 300			

GENERAL INFORMATION:

APPLICANT: Askenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnovers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas P.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same

FILE REFERENCE: P273021C37

CURRENT APPLICATION NUMBER: US/09/997,349

CURRENT FILING DATE: 2001-11-15

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/065186

PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065311

PRIOR FILING DATE: 1997-11-13

PRIOR APPLICATION NUMBER: 60/066770

PRIOR FILING DATE: 1997-11-24

PRIOR APPLICATION NUMBER: 60/075945

PRIOR FILING DATE: 1998-02-25

PRIOR APPLICATION NUMBER: 60/078910

us-09-989-279-229.rapb

PRIOR FILING DATE: 1998-03-20  
 PRIOR APPLICATION NUMBER: 60/083322  
 PRIOR FILING DATE: 1998-04-28  
 PRIOR APPLICATION NUMBER: 60/084600  
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 PRIOR APPLICATION NUMBER: 60/087106  
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 PRIOR APPLICATION NUMBER: 60/089532  
 PRIOR FILING DATE: 1998-06-17  
 PRIOR APPLICATION NUMBER: 60/089538  
 PRIOR FILING DATE: 1998-06-17  
 PRIOR APPLICATION NUMBER: 60/089598  
 PRIOR FILING DATE: 1998-06-17



Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2y 1 MKLLNQVTHHTHNAILLPVYTAQWILCAIAAASAGPQNCPSVCSGNSQSKVV 60  
2b 1 MKLLNQVTHHTHNAILLPVYTAQWILCAIAAASAGPQNCPSVCSGNSQSKVV 60

2y 61 CTRRGLSVPOGISNTRYLNLMENNIOIADTFRLHLHLEVLQLRGNIROIEVGAFN 120  
2b 61 CTRRGLSVPOGISNTRYLNLMENNIOIADTFRLHLHLEVLQLRGNIROIEVGAFN 120

2y 121 GLASLNTLEFDNMLTVIPSGAFYLSKRLRLNPNPISIPSYAFNRVPSLRDLGE 180  
2b 121 GLASLNTLEFDNMLTVIPSGAFYLSKRLRLNPNPISIPSYAFNRVPSLRDLGE 180

2y 181 LKKLEYISGEGAFGLFNLYLNGLMCNCKDNPNTPLVGLLEELRMSGNHPEIRPGSEHG 240  
2b 181 LKKLEYISGEGAFGLFNLYLNGLMCNCKDNPNTPLVGLLEELRMSGNHPEIRPGSEHG 240

2y 241 LSSLLKLVWMSQVSLIERNADFGLASIVELNLAHNLSSLPDHLFTPLRYLVELHLHN 300  
2b 241 LSSLLKLVWMSQVSLIERNADFGLASIVELNLAHNLSSLPDHLFTPLRYLVELHLHN 300

2y 301 PNWCDDILWLAWLREVIPTNCTCCGCHAPMHRGRYLVEDVQASFGCSAPFMDAPR 360  
2b 301 PNWCDDILWLAWLREVIPTNCTCCGCHAPMHRGRYLVEDVQASFGCSAPFMDAPR 360

2y 361 DLNISEGMAELKCTPPMSSVKMLLNGTVLSHASRHPRIISVLDNGLTNFSLVLLSDTG 420  
2b 361 DLNISEGMAELKCTPPMSSVKMLLNGTVLSHASRHPRIISVLDNGLTNFSLVLLSDTG 420

2y 421 VYTCWTVNAGNSASAVLNSTAEIENSTNSFFTVTVETTESPEDTTRKYPVETTS 480  
2b 421 VYTCWTVNAGNSASAVLNSTAEIENSTNSFFTVTVETTESPEDTTRKYPVETTS 480

2y 481 TGYQPAYTTSITVLITQTRVPKQAVPATDTDKWQTSLEDMWTKTKIIGCFVAVTLA 540  
2b 481 TGYQPAYTTSITVLITQTRVPKQAVPATDTDKWQTSLEDMWTKTKIIGCFVAVTLA 540

2y 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEGAVVLP 600  
2b 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEGAVVLP 600

2y 601 IHDHINYNTPKPAHGAHWNTENSGLNSLHPTVTITISEPVIIQTHTKDKVQETQI 653  
2b 601 IHDHINYNTPKPAHGAHWNTENSGLNSLHPTVTITISEPVIIQTHTKDKVQETQI 653

RESULT 45

US-09-997-440-229  
Sequence 229, Application US/09997440  
Publication No. US20030059833A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
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APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730FIC31  
CURRENT APPLICATION NUMBER: US/09/997,440  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
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 ; PRIOR APPLICATION NUMBER: 60/091633  
 ; PRIOR FILING DATE: 1998-07-02  
 ; PRIOR APPLICATION NUMBER: 60/091978  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/091982  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/092182  
 ; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
 Best local similarity 100.0%; Pred. No. 1.2e-293;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKLLQVTVHHHTWNAILLPFVYLTQVWILCAAIAAASAGPQNCPSVCSNQSFKV 60  
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 Qy 61 CTRRGISEVPGQIPSNTRYNLNMENNIQIADTPPHLHLEVQLGRNSIRQIEVGA 120  
 Db 61 CTRRGISEVPGQIPSNTRYNLNMENNIQIADTPPHLHLEVQLGRNSIRQIEVGA 120  
 Qy 121 GLASLNTLELFDNWLTVIPSGAFYLSKLRELWLNPNIESIPSAFNVPSLMRLD 180  
 Db 121 GLASLNTLELFDNWLTVIPSGAFYLSKLRELWLNPNIESIPSAFNVPSLMRLD 180  
 Qy 181 LKLEYISEGAFEGFLNKLKYLNLGMCNIKDMPNLTPLVGLLEMSGNHFPRI 240  
 Db 181 LKLEYISEGAFEGFLNKLKYLNLGMCNIKDMPNLTPLVGLLEMSGNHFPRI 240  
 Qy 241 LSSIKKLWVNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRYLVELLHN 300  
 Db 241 LSSIKKLWVNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRYLVELLHN 300  
 Qy 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPNHHMGRYLVVEVDQASFOCSAP 360  
 Db 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPNHHMGRYLVVEVDQASFOCSAP 360  
 Qy 361 DLNISGRMAELKCRTPPMSSVUKWLLPNGTVLSHSHRHPRIISVLDGTLNESHYLLSD 420

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Db 361 DNTISEGRMAELKCRTPPMSSVGNLLPNGTVLSHSHRPRISVINDGTNLFHSHVLLSDTG 420
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
Qy 421 VYTCNVTVAGNSASAVLNSTAEALNTSNYSFFTTVTVETETISPEDTTRKYPVPTTS 480
; PRIOR APPLICATION NUMBER: 60/087609
; PRIOR FILING DATE: 1998-06-02
Db 421 VYTCNVTVAGNSASAVLNSTAEALNTSNYSFFTTVTVETETISPEDTTRKYPVPTTS 480
; PRIOR APPLICATION NUMBER: 60/087759
; PRIOR FILING DATE: 1998-06-02
Qy 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDITDQKQTSLSDEWMTTKIILGCFVAVTLLA 540
; PRIOR APPLICATION NUMBER: 60/087827
; PRIOR FILING DATE: 1998-06-03
Db 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDITDQKQTSLSDEWMTTKIILGCFVAVTLLA 540
; PRIOR APPLICATION NUMBER: 60/088021
; PRIOR FILING DATE: 1998-06-04
Qy 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIDIPAATSAATAAPSGVSGGAVVLP 600
; PRIOR APPLICATION NUMBER: 60/088025
; PRIOR FILING DATE: 1998-06-04
Db 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIDIPAATSAATAAPSGVSGGAVVLP 600
; PRIOR APPLICATION NUMBER: 60/088026
; PRIOR FILING DATE: 1998-06-04
Qy 601 IHDHINYNTYRPAHGAHWTEHNSLHSTVTTTISEPYIIQTHTKDKVQSTQI 653
; PRIOR APPLICATION NUMBER: 60/088028
; PRIOR FILING DATE: 1998-06-04
Db 601 IHDHINYNTYRPAHGAHWTEHNSLHSTVTTTISEPYIIQTHTKDKVQSTQI 653
; PRIOR APPLICATION NUMBER: 60/088029
; PRIOR FILING DATE: 1998-06-04
; PRIOR APPLICATION NUMBER: 60/088030
; PRIOR FILING DATE: 1998-06-04
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; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089653
; PRIOR FILING DATE: 1998-06-17
; PRIOR APPLICATION NUMBER: 60/089801
; PRIOR FILING DATE: 1998-06-17

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RESULT 46

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US-09-990-440-229
; Sequence 229, Application US/09990440
; Publication No. US20030060407A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC21
; CURRENT APPLICATION NUMBER: US/09/990,440
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
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; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28

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PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07

; PRIOR APPLICATION NUMBER: 60/092182  
; PRIOR FILING DATE: 1998-07-09  
Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 M K L L N O V T V H H T W N A I L P F V Y L T A Q W I L C A A T A A A S A G P O K C P S V C S C S N O P S K V 60  
Db 1 M K L L N O V T V H H T W N A I L P F V Y L T A Q W I L C A A T A A A S A G P O K C P S V C S C S N O P S K V 60  
Qy 61 C T R R G L S E V P Q G I P S N T R Y L N L M E N N I O M I Q A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120  
Db 61 C T R R G L S E V P Q G I P S N T R Y L N L M E N N I O M I Q A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120  
Qy 121 G L A S I N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L R N N P I E S I P S Y A F R V P S L M L D L G E 180  
Db 121 G L A S I N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L R N N P I E S I P S Y A F R V P S L M L D L G E 180  
Qy 181 L K K L E Y I S E G A F E G L F N L K Y L N L G M C N I K D M P N L P L V G L B E L E M S G N H F P E I R P G S F H G 240  
Db 181 L K K L E Y I S E G A F E G L F N L K Y L N L G M C N I K D M P N L P L V G L B E L E M S G N H F P E I R P G S F H G 240  
Qy 241 L S S L K K L W M N S Q V S L I E R N A F D G L A S L V E L N L A H N N L S S L P H D L F T P L Y L V L H L H N 300  
Db 241 L S S L K K L W M N S Q V S L I E R N A F D G L A S L V E L N L A H N N L S S L P H D L F T P L Y L V L H L H N 300  
Qy 301 P M N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M H M R G R Y L V E V D O A S F O C S A P P I M D A P R 360  
Db 301 P M N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M H M R G R Y L V E V D O A S F O C S A P P I M D A P R 360  
Qy 361 D L N I S E G R M A E L K C R T P P M S S V K L L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420  
Db 361 D L N I S E G R M A E L K C R T P P M S S V K L L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420  
Qy 421 V Y T C M V T N V A G N S N A S A Y L N V S T A B L N T S N S F F T V T V T E I S P E D T T R K Y K V P T T S 480  
Db 421 V Y T C M V T N V A G N S N A S A Y L N V S T A B L N T S N S F F T V T V T E I S P E D T T R K Y K V P T T S 480  
Qy 481 T G Y Q P A Y T T S T T V L I Q T T R V P K Q V A P A T D T D K M Q T S L D E V M K T T K I I I G C F V A V T L L A 540  
Db 481 T G Y Q P A Y T T S T T V L I Q T T R V P K Q V A P A T D T D K M Q T S L D E V M K T T K I I I G C F V A V T L L A 540  
Qy 541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I O V D E D I P A A T S A A N T A A P S G V S G E G A V L P T 600  
Db 541 A A M L I V F Y K L R K R H Q O R S T V T A A R T V E I I O V D E D I P A A T S A A N T A A P S G V S G E G A V L P T 600  
Qy 601 I H D H I N Y T Y K P A G A H A W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T O I 653  
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RESULT 47  
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; Sequence 229, Application US/09993469  
; Publication No. US20030068623A1  
; GENERAL INFORMATION:  
; APPLICANT: Askenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P15  
CURRENT APPLICATION NUMBER: US/09/993,469  
CURRENT FILING DATE: 2002-11-14  
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PRIOR FILING DATE: 1997-06-16  
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PRIOR FILING DATE: 1998-06-24  
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PRIOR FILING DATE: 1998-06-24  
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PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090472  
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PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090540  
PRIOR FILING DATE: 1998-06-24  
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PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090557

PRIOR FILING DATE: 1998-06-24  
PRIOR APPLICATION NUMBER: 60/090676  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090678  
PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090690  
PRIOR FILING DATE: 1998-06-25  
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PRIOR FILING DATE: 1998-06-25  
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PRIOR FILING DATE: 1998-06-25  
PRIOR APPLICATION NUMBER: 60/090862  
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PRIOR APPLICATION NUMBER: 60/090863  
PRIOR FILING DATE: 1998-06-26  
PRIOR APPLICATION NUMBER: 60/091360  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091626  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

y 1 MKLLWQVTHHTWNAIPLFVYLAQWILCAATAAASAGPQNCPSVCSCNQFSKV 60  
b 1 MKLLWQVTHHTWNAIPLFVYLAQWILCAATAAASAGPQNCPSVCSCNQFSKV 60  
y 61 CTRRGLSEVQGPISNTRYLNLMNMIQADTFPHLHLEVLQLGNSIRQIEVGAFN 120  
b 61 CTRRGLSEVQGPISNTRYLNLMNMIQADTFPHLHLEVLQLGNSIRQIEVGAFN 120  
y 121 GLASLNTLELFDNLWLTVPISGAFYLSKRLWLNPNPIESIPSYAFNRPVSLMELDLGE 180  
b 121 GLASLNTLELFDNLWLTVPISGAFYLSKRLWLNPNPIESIPSYAFNRPVSLMELDLGE 180  
y 181 LKLEIYISGAFGLFNKLYLMGCMNIDMPNLPLVGLBLELEMSGNHFFPIRPGSFHG 240  
b 181 LKLEIYISGAFGLFNKLYLMGCMNIDMPNLPLVGLBLELEMSGNHFFPIRPGSFHG 240  
y 241 LSLKLLWNNQSVSLIERNADFDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHNN 300  
b 241 LSLKLLWNNQSVSLIERNADFDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHNN 300  
y 301 PWCDCDILWNLWLTVPISGAFYLSKRLWLNPNPIESIPSYAFNRPVSLMELDLGE 360  
b 301 PWCDCDILWNLWLTVPISGAFYLSKRLWLNPNPIESIPSYAFNRPVSLMELDLGE 360  
y 361 DLNISEGRMAELKCRTPPMSSVKWLLPNTGTVLSHARHPRIVLNDGTNLNPSHVLLSDTG 420  
b 361 DLNISEGRMAELKCRTPPMSSVKWLLPNTGTVLSHARHPRIVLNDGTNLNPSHVLLSDTG 420  
y 421 VYTCMTWTVNAGNSAYLNLSVTAELNTNSYFFTVTVETTEISPEDTTRKYKVPPTTS 480  
b 421 VYTCMTWTVNAGNSAYLNLSVTAELNTNSYFFTVTVETTEISPEDTTRKYKVPPTTS 480  
y 481 TGYPQPAYTTSTTVLIQTTRVPKQVAPATDTTDKQVLSLDEVMKTKIIIGCFVAVTLLA 540

DB 481 TGYPQPAYTTSTTVLIQTTRVPKQVAPATDTTDKQVLSLDEVMKTKIIIGCFVAVTLLA 540  
QY 541 AANLIVFYKLRKHQORSTVTAARTVEIIQVDEDIIPAATAAATAAPSGVSGEGAVVLP 600  
DB 541 AANLIVFYKLRKHQORSTVTAARTVEIIQVDEDIIPAATAAATAAPSGVSGEGAVVLP 600  
QY 601 IHDHINYNTPKPAHGAHWTENSLGNSLHPTVTITISEPYIIOTHTKQKVOETQI 653  
DB 601 IHDHINYNTPKPAHGAHWTENSLGNSLHPTVTITISEPYIIOTHTKQKVOETQI 653

RESULT 48

US-09-997-542-229  
; Sequence 229, Application US/09997542  
; Publication No. US20030068647A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavini, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas P.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730PIC26  
; CURRENT APPLICATION NUMBER: US/09/997,542  
; CURRENT FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/065186  
; PRIOR FILING DATE: 1997-11-12  
; PRIOR APPLICATION NUMBER: 60/065311  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: 60/066770  
; PRIOR FILING DATE: 1997-11-24  
; PRIOR APPLICATION NUMBER: 60/075945  
; PRIOR FILING DATE: 1998-02-25  
; PRIOR APPLICATION NUMBER: 60/078910  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/083322  
; PRIOR FILING DATE: 1998-04-28  
; PRIOR APPLICATION NUMBER: 60/084600  
; PRIOR FILING DATE: 1998-05-07  
; PRIOR APPLICATION NUMBER: 60/087106  
; PRIOR FILING DATE: 1998-05-28  
; PRIOR APPLICATION NUMBER: 60/087607  
; PRIOR FILING DATE: 1998-06-02  
; PRIOR APPLICATION NUMBER: 60/087609  
; PRIOR FILING DATE: 1998-06-02  
; PRIOR APPLICATION NUMBER: 60/087759  
; PRIOR FILING DATE: 1998-06-02  
; PRIOR APPLICATION NUMBER: 60/087827

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2 PRIOR APPLICATION NUMBER: 60/088021  
3 PRIOR FILING DATE: 1998-06-04  
4 PRIOR APPLICATION NUMBER: 60/088025  
5 PRIOR FILING DATE: 1998-06-04  
6 PRIOR APPLICATION NUMBER: 60/088026  
7 PRIOR FILING DATE: 1998-06-04  
8 PRIOR APPLICATION NUMBER: 60/088028  
9 PRIOR FILING DATE: 1998-06-04  
10 PRIOR APPLICATION NUMBER: 60/088029  
11 PRIOR FILING DATE: 1998-06-04  
12 PRIOR APPLICATION NUMBER: 60/088030  
13 PRIOR FILING DATE: 1998-06-04  
14 PRIOR APPLICATION NUMBER: 60/088033  
15 PRIOR FILING DATE: 1998-06-04  
16 PRIOR APPLICATION NUMBER: 60/088325  
17 PRIOR FILING DATE: 1998-06-04  
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19 PRIOR FILING DATE: 1998-06-05  
20 PRIOR APPLICATION NUMBER: 60/088202  
21 PRIOR FILING DATE: 1998-06-05  
22 PRIOR APPLICATION NUMBER: 60/088212  
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25 PRIOR FILING DATE: 1998-06-05  
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28 PRIOR APPLICATION NUMBER: 60/088734  
29 PRIOR FILING DATE: 1998-06-10  
30 PRIOR APPLICATION NUMBER: 60/088738  
31 PRIOR FILING DATE: 1998-06-10  
32 PRIOR APPLICATION NUMBER: 60/088742  
33 PRIOR FILING DATE: 1998-06-10  
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39 PRIOR FILING DATE: 1998-06-10  
40 PRIOR APPLICATION NUMBER: 60/088858  
41 PRIOR FILING DATE: 1998-06-11  
42 PRIOR APPLICATION NUMBER: 60/088861  
43 PRIOR FILING DATE: 1998-06-11  
44 PRIOR APPLICATION NUMBER: 60/088876  
45 PRIOR FILING DATE: 1998-06-11  
46 PRIOR APPLICATION NUMBER: 60/089105  
47 PRIOR FILING DATE: 1998-06-12  
48 PRIOR APPLICATION NUMBER: 60/089440  
49 PRIOR FILING DATE: 1998-06-16  
50 PRIOR APPLICATION NUMBER: 60/089512  
51 PRIOR FILING DATE: 1998-06-16  
52 PRIOR APPLICATION NUMBER: 60/089514  
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55 PRIOR FILING DATE: 1998-06-17  
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60 PRIOR APPLICATION NUMBER: 60/089599  
61 PRIOR FILING DATE: 1998-06-17  
62 PRIOR APPLICATION NUMBER: 60/089600  
63 PRIOR FILING DATE: 1998-06-17  
64 PRIOR APPLICATION NUMBER: 60/089653  
65 PRIOR FILING DATE: 1998-06-17  
66 PRIOR APPLICATION NUMBER: 60/089801  
67 PRIOR FILING DATE: 1998-06-18  
68 PRIOR APPLICATION NUMBER: 60/089907  
69 PRIOR FILING DATE: 1998-06-18  
70 PRIOR APPLICATION NUMBER: 60/089908  
71 PRIOR FILING DATE: 1998-06-18  
72 PRIOR APPLICATION NUMBER: 60/089947  
73 PRIOR FILING DATE: 1998-06-19

74 PRIOR APPLICATION NUMBER: 60/089948  
75 PRIOR FILING DATE: 1998-06-19  
76 PRIOR APPLICATION NUMBER: 60/089952  
77 PRIOR FILING DATE: 1998-06-19  
78 PRIOR APPLICATION NUMBER: 60/090246  
79 PRIOR FILING DATE: 1998-06-22  
80 PRIOR APPLICATION NUMBER: 60/090252  
81 PRIOR FILING DATE: 1998-06-22  
82 PRIOR APPLICATION NUMBER: 60/090254  
83 PRIOR FILING DATE: 1998-06-22  
84 PRIOR APPLICATION NUMBER: 60/090349  
85 PRIOR FILING DATE: 1998-06-23  
86 PRIOR APPLICATION NUMBER: 60/090355  
87 PRIOR FILING DATE: 1998-06-23  
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101 PRIOR FILING DATE: 1998-06-24  
102 PRIOR APPLICATION NUMBER: 60/090540  
103 PRIOR FILING DATE: 1998-06-24  
104 PRIOR APPLICATION NUMBER: 60/090542  
105 PRIOR FILING DATE: 1998-06-24  
106 PRIOR APPLICATION NUMBER: 60/090557  
107 PRIOR FILING DATE: 1998-06-24  
108 PRIOR APPLICATION NUMBER: 60/090676  
109 PRIOR FILING DATE: 1998-06-25  
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122 PRIOR APPLICATION NUMBER: 60/090863  
123 PRIOR FILING DATE: 1998-06-26  
124 PRIOR APPLICATION NUMBER: 60/091360  
125 PRIOR FILING DATE: 1998-07-01  
126 PRIOR APPLICATION NUMBER: 60/091478  
127 PRIOR FILING DATE: 1998-07-02  
128 PRIOR APPLICATION NUMBER: 60/091544  
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133 PRIOR FILING DATE: 1998-07-02  
134 PRIOR APPLICATION NUMBER: 60/091633  
135 PRIOR FILING DATE: 1998-07-02  
136 PRIOR APPLICATION NUMBER: 60/091978  
137 PRIOR FILING DATE: 1998-07-07  
138 PRIOR APPLICATION NUMBER: 60/091982  
139 PRIOR FILING DATE: 1998-07-07  
140 PRIOR APPLICATION NUMBER: 60/092182  
141 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1	Y	1	MKLLWQVTVSHHTWNAILLPFVYVITRAQWVILCAATAAAASAGPQNCPSVCSCSNQSKVV	60
1	b	1	MKLLWQVTVSHHTWNAILLPFVYVITRAQWVILCAATAAAASAGPQNCPSVCSCSNQSKVV	60
61	Y	61	CTRGLSEVPQGI PSNTRYLNMENNIOI QADTFRHLHLEVLQLGNSIROIEVGAFN	120
61	b	61	CTRGLSEVPQGI PSNTRYLNMENNIOI QADTFRHLHLEVLQLGNSIROIEVGAFN	120
121	Y	121	GLASLNTLELFDNWLTVIPSGAFYLSKULRELAWRNNDIESIPSYAFNRVPSLMRLDLGE	180
121	b	121	GLASLNTLELFDNWLTVIPSGAFYLSKULRELAWRNNDIESIPSYAFNRVPSLMRLDLGE	180
181	Y	181	LKLEIYISEGAFGLFNLKVLNLGMCNIIKXPNLTPLVGLBEELBWSGNHPEIRPGSFG	240
181	b	181	LKLEIYISEGAFGLFNLKVLNLGMCNIIKXPNLTPLVGLBEELBWSGNHPEIRPGSFG	240
241	Y	241	LSSLKLWVWNSQVSLIERNVDFGLASLVELLAHNNISSLPHDLFTPLRYLVELHLHN	300
241	b	241	LSSLKLWVWNSQVSLIERNVDFGLASLVELLAHNNISSLPHDLFTPLRYLVELHLHN	300
301	Y	301	PWNCDCDILMLANWLREYIPTNSTCCGRCHAPMWRGRYLVVEVQASFGCSAPFIMDA	360
301	b	301	PWNCDCDILMLANWLREYIPTNSTCCGRCHAPMWRGRYLVVEVQASFGCSAPFIMDA	360
361	Y	361	DLNISEGRMAELKCRTPPKSSVKWLLPNCITVLVSHASREPRISVLNDGTLNFSHLLSDTG	420
361	b	361	DLNISEGRMAELKCRTPPKSSVKWLLPNCITVLVSHASREPRISVLNDGTLNFSHLLSDTG	420
421	Y	421	VYTCWTVNVAAGNSAAYLNVSTAEALNTSNYSFPTTVTTEISPDTRTKYKPVPTTS	480
421	b	421	VYTCWTVNVAAGNSAAYLNVSTAEALNTSNYSFPTTVTTEISPDTRTKYKPVPTTS	480
481	Y	481	TGYOPAVYTTSTVLIQTRVPKQVAVPATDITDKMOTSLDEVMKTKIIIGCFVAVTLLA	540
481	b	481	TGYOPAVYTTSTVLIQTRVPKQVAVPATDITDKMOTSLDEVMKTKIIIGCFVAVTLLA	540
541	Y	541	AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIPAAATSAATAASGVSGGAVVLP	600
541	b	541	AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIPAAATSAATAASGVSGGAVVLP	600
601	Y	601	IHDHINVTYKPAHGAHWNTSNGSLHPTVTITSEPYIIQTHTKDKVQETQI	653
601	b	601	IHDHINVTYKPAHGAHWNTSNGSLHPTVTITSEPYIIQTHTKDKVQETQI	653

RESULT 49

SS-09-993-748-229

Sequence 229, Application US/09993748

Publication No. US20030069403A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnovers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary B.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kijavini, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

RESULT 49  
S-09-993-748-229  
Sequence 229, Application US/09993748  
Publication No. US2003069403A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.



; PRIOR FILING DATE: 1998-06-11  
 ; PRIOR APPLICATION NUMBER: 60/088861  
 ; PRIOR FILING DATE: 1998-06-11  
 ; PRIOR APPLICATION NUMBER: 60/088876  
 ; PRIOR FILING DATE: 1998-06-11  
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 ; PRIOR APPLICATION NUMBER: 60/091633  
 ; PRIOR FILING DATE: 1998-07-02  
 ; PRIOR APPLICATION NUMBER: 60/091978  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/091982  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/092182  
 ; PRIOR FILING DATE: 1998-07-09  
 ; PRIOR APPLICATION NUMBER: 60/092182

Query Match 100.0%; Score 3440; DB 11; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 M K L L Q V T V H H T W N A I L P P V I T A Q W I L C A A A A S A G Q N C P S V C S C N Q F S K V 60  
 D b 1 M K L L Q V T V H H T W N A I L P P V I T A Q W I L C A A A A S A G Q N C P S V C S C N Q F S K V 60

QY 61 C T R R G L S E V P Q G I P S N T R Y L N L M E N N I Q M I Q A D T F R L H L H L E V L Q L G R N S I R O I E V G A F N 120  
 D b 61 C T R R G L S E V P Q G I P S N T R Y L N L M E N N I Q M I Q A D T F R L H L H L E V L Q L G R N S I R O I E V G A F N 120

QY 121 G L A S L N T L E L F D N W L T V I P S G A F E Y L S K L R E L M L R N N P I E S I P S Y A F N R V P S L M R L D L G E 180  
 D b 121 G L A S L N T L E L F D N W L T V I P S G A F E Y L S K L R E L M L R N N P I E S I P S Y A F N R V P S L M R L D L G E 180

QY 181 L K L E Y I S E G A F E G L F N L K Y L N L G M C N I K O M P N L T P L V G L E E L E M S G N H P P E I R P G S F H G 240  
 D b 181 L K L E Y I S E G A F E G L F N L K Y L N L G M C N I K O M P N L T P L V G L E E L E M S G N H P P E I R P G S F H G 240

QY 241 L S S L K L W M N S Q V S L I E R N A F D G L A S L V E L N L A H N N L S S L P H D L F T P L R Y L V E L H L H N 300  
 D b 241 L S S L K L W M N S Q V S L I E R N A F D G L A S L V E L N L A H N N L S S L P H D L F T P L R Y L V E L H L H N 300

QY 301 P W N C D O I L M A W M L R E Y I P T N S T C C G R C H A P M M R G R Y L V E V D Q A S P Q C S A P P I M D A P R 360  
 D b 301 P W N C D O I L M A W M L R E Y I P T N S T C C G R C H A P M M R G R Y L V E V D Q A S P Q C S A P P I M D A P R 360

QY 361 D L N I S E G R M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420  
 D b 361 D L N I S E G R M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420

QY 421 V Y T C W T N V A G N S N A S A Y L N V S T A E L N T S N Y S P F T T V T V E T T E I S P E D T T R K Y K P V P T T S 480  
 D b 421 V Y T C W T N V A G N S N A S A Y L N V S T A E L N T S N Y S P F T T V T V E T T E I S P E D T T R K Y K P V P T T S 480

QY 481 T G Y P A Y T T S T V L I Q T R Y P K V A P A T D T T O K M O T S L D E V N K T T K I I G C P V A V T T L A 540  
 D b 481 T G Y P A Y T T S T V L I Q T R Y P K V A P A T D T T O K M O T S L D E V N K T T K I I G C P V A V T T L A 540

QY 541 A A M L I V F Y K L R K R H Q Q R S T V T A A R T V E I I Q V D B D I P A A T S A A A T A A P S G V S G E G A V V L P T 600  
 D b 541 A A M L I V F Y K L R K R H Q Q R S T V T A A R T V E I I Q V D B D I P A A T S A A A T A A P S G V S G E G A V V L P T 600

601 IHHDHNTYKPAHGAHWTEHSLGNSLHPTVTITSEPVIIQHTTKDKVQETQI 653  
 601 IHHDHNTYKPAHGAHWTEHSLGNSLHPTVTITSEPVIIQHTTKDKVQETQI 653

SULT 50

1-09-990-439-229

Sequence 229, Application US/09990439

Publication No. US20030073090A1

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APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

FILE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P273GFC152

CURRENT APPLICATION NUMBER: US/09/990,439

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PRIOR APPLICATION NUMBER: 60/083322

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PRIOR APPLICATION NUMBER: 60/084600

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PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 3440; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 1.2e-293;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MKLLQVTVHHTWNAILFPVYLTAQWVILCAALIAAASAGPQNCPSVCSCNQFSKV 60  
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QY 61 CTRRGLSEVPOGIPSNRYNLNENNIOIQADTFSHLHLEVLQLGNSIRQIEVGAFN 120  
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QY 121 GLASINTLELFDNWLTVIPSGAFEYLSKRELMLRNNPIESIPSYAFNRVPSLMRLDAGE 180  
DB 121 GLASINTLELFDNWLTVIPSGAFEYLSKRELMLRNNPIESIPSYAFNRVPSLMRLDAGE 180  
QY 181 LKLEYISEGAFEGFLPNLKYNLGMNIKDMPNLTPVGLLEELMSGNHPPEIRPGSPHG 240  
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QY 241 LSSLKULWVNSQVSLIERNAFDGLASLVELNLAHNNLSSLPDHLFTPLRYLYVELHLHN 300  
DB 241 LSSLKULWVNSQVSLIERNAFDGLASLVELNLAHNNLSSLPDHLFTPLRYLYVELHLHN 300  
QY 301 PNWCDCDILMLAWLREYIIPTNSTCCGRCHAPMHRGRYLVVEVDQASFOCSAPFIMDAPR 360  
DB 301 PNWCDCDILMLAWLREYIIPTNSTCCGRCHAPMHRGRYLVVEVDQASFOCSAPFIMDAPR 360  
QY 361 DINTSEGRMAELKCRTPMSSVKWLLPENGTVLASHHPRI SVLNDGTNFSHVLLSDTG 420  
DB 361 DINTSEGRMAELKCRTPMSSVKWLLPENGTVLASHHPRI SVLNDGTNFSHVLLSDTG 420  
QY 421 VYTCWTVNVAGNSNASAYLVNSTAELNYSYFTTVTETTESISPEDTRKYPVPTTS 480  
DB 421 VYTCWTVNVAGNSNASAYLVNSTAELNYSYFTTVTETTESISPEDTRKYPVPTTS 480  
QY 481 TGYQPAYTSTTVLIQTTRVPKQVAVPATDTDKQVSLDEWVKTKIILGCFVAVTLLA 540  
DB 481 TGYQPAYTSTTVLIQTTRVPKQVAVPATDTDKQVSLDEWVKTKIILGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQQRSTVTAARTVEIIQVDEDI PAATSAATAAPSGVSGEAVVLP 600  
DB 541 AAMLIVFYKLRKHQQRSTVTAARTVEIIQVDEDI PAATSAATAAPSGVSGEAVVLP 600  
QY 601 IHDHINNYTPAHGAHWNTENSLGNSLHPTVTIIEPYIIQTHTKDKVQETOI 653  
DB 601 IHDHINNYTPAHGAHWNTENSLGNSLHPTVTIIEPYIIQTHTKDKVQETOI 653

Search completed: February 5, 2004, 15:59:21  
Job time : 44 secs

GenCore version 5.1.6  
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M protein - protein search, using sw model

run on: February 5, 2004, 15:51:06 ; Search time 47 Seconds  
(without alignments)  
2205.286 Million cell updates/sec

file: US-09-989-279-229  
effect score: 653  
sequence: 1 MKLLMQVTHHTWAILLP.....ISEPYIOTHYKDKVQETQI 653

coring table: OLIGO  
Gapop 60.0 , Gapext 60.0

searched: 1107863 seqs, 158726573 residues

ord size : 6

total number of hits satisfying chosen parameters: 6371

inimum DB seq length: 0

aximum DB seq length: 2000000000

ost-processing: Listing first 150 summaries

database : A: Geneseq 19Jun03:\*

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- 24: /SIDS1/gcgdata/geneseq/geneseq-embl/AA2003.DAT:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

result No.	Score	Query Match	Length	ID	Description
1	653	100.0	653	21	Human PRO1111 prot
2	653	100.0	653	21	Membrane-bound pro
3	653	100.0	653	22	Human sbgPRO331a p
4	653	100.0	653	22	Human PRO1111 poly
5	653	100.0	653	22	Human PRO1111 (UNQ
6	653	100.0	653	24	Human PRO polypt
7	653	100.0	653	24	Human secreted/tra
8	653	100.0	653	24	Novel secreted and
9	653	100.0	653	24	Novel human secret

Human secreted/tra  
Novel human secret  
Human secreted/tra  
Human PRO polypt  
Human secreted/tra  
Human PRO1111 poly  
Human PRO polypt  
Human immunoglobul  
cc359\_4 secreted p  
Human cDNA SEQ ID  
Human polyptide  
Human SLIT protein  
Human ORFX ORP2B55  
Human leucine rich  
Human SLIT protein  
Human SLIT protein  
Human cDNA SEQ ID  
Human immunoglobul  
Human polyptide  
Human secreted pro  
Human gene 3 encod  
Human secreted pro  
Human secreted pro  
Human secreted pro  
Human secreted pro  
Human gene 3 encod  
Human secreted pro  
Human secreted pro  
Human nervous syst  
Human novel secret  
Human leucine-rich  
Human nervous syst  
Human novel secret  
Human GPCR related  
Human PRO331 prote  
Novel protein (clo  
Amino acid sequenc  
Human PRO331 prote  
Human PRO331 poly  
Human immune respo  
Human PRO331 prote  
Human PRO331 prote  
Human angio genesis  
Novel human secret  
Human PRO polypt  
Human secreted/tra  
Human PRO polypt  
Human secreted/tra  
Human secreted and  
Novel secreted/tra  
Human secreted/tra  
Human secreted/tra  
Human secreted/tra  
Human PRO polypt  
Human secreted/tra  
Human PRO331 poly  
Human PRO polypt  
Human leucine rich  
Human leucine rich  
Human AS209\_1 secr  
Human leucine rich  
Human leucine rich  
Novel human secret  
Human secreted pro  
Drosophila melanog  
pinus radiata cell  
Drosophila melanog  
Nephila clavipes s  
N. clavipes spider

83 1.2 80 21 AAG08637 Arabidopsis thalia  
84 1.2 130 21 AAG04655 Arabidopsis thalia  
85 1.2 288 22 ABE59346 Drosophila melanog  
86 1.2 431 22 ABE69274 Drosophila melanog  
87 1.2 442 22 ABE99920 Human GATA4 protei  
88 1.2 442 22 AAG64319 Human GATA4 protei  
89 1.2 442 22 AAG64849 Heart muscle cell  
90 1.2 453 22 ABE21438 Novel human diagno  
91 1.2 531 20 AAY40098 Spider silk protei  
92 1.2 592 21 AAG15484 Arabidopsis thalia  
93 1.2 595 21 AAR14309 N. clavipes draglin  
94 1.2 595 19 AAW53347 Nephtia clavipes s  
95 1.2 595 21 AAY59071 N. clavipes spider  
96 1.2 601 23 ABE93800 Herbicidally activ  
97 1.2 613 22 AAG60220 Drosophila melanog  
98 1.2 620 21 AAB43748 Human cancer assoc  
99 1.2 623 21 AAG42595 Arabidopsis thalia  
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107 1.2 742 22 ABE59853 Drosophila melanog  
108 1.2 811 22 ABE63241 Drosophila melanog  
109 1.2 882 22 ABE70358 Drosophila melanog  
110 1.2 1100 24 ABU03083 Alpha amylase poly  
111 1.2 1111 23 AAU79525 Mouse MATER protei  
112 1.2 1111 24 ABE31748 Drosophila melanog  
113 1.2 1218 22 ABE63445 Drosophila melanog  
114 1.2 1224 22 ABE62191 Drosophila melanog  
115 1.1 7 17 AAG96113 Peptide provides s  
116 1.1 9 22 AAM22920 HIV peptide SEQ ID  
117 1.1 9 22 AAM22968 Antifreeze segment  
118 1.1 11 11 AAR08090 Murine MHC class I  
119 1.1 13 16 AAR84046 Human leucine rich  
120 1.1 13 23 ABE97982 Human leucine rich  
121 1.1 13 23 ABE98003 Murine MHC class I  
122 1.1 16 16 AAR84047 Human liver peptid  
123 1.1 25 22 ABE53861 Peptide #6457 enco  
124 1.1 25 22 ABE38951 Protein #5933 enco  
125 1.1 25 22 ABE23934 Human brain expres  
126 1.1 25 22 AAM59602 Human bone marrow  
127 1.1 25 22 AAM72175 Peptide #5913 enco  
128 1.1 25 22 AAM19479 Peptide #5472 enco  
129 1.1 25 22 AAM32435 Human peptide enco  
130 1.1 25 23 ABE41989 Human ORFX protein  
131 1.1 50 23 ABE07552 Human gene 19 enco  
132 1.1 52 23 ABE07791 Propionibacterium  
133 1.1 56 22 ABE03891 Staphylococcus epi  
134 1.1 68 22 AAY44531 Ovary cell-specific  
135 1.1 69 23 ABE39747 Staphylococcus epi  
136 1.1 73 23 ABU01092 Ovary cell-specific  
137 1.1 74 20 AAY60440 Human normal blad  
138 1.1 75 11 AAR06468 Derived protein #1  
139 1.1 77 23 ABE34517 Human ORF3490 prot  
140 1.1 81 21 AAG33666 Arabidopsis thalia  
141 1.1 83 21 AAG56133 Arabidopsis thalia  
142 1.1 85 23 ABE07984 Human ORFX protein  
143 1.1 86 24 ABE32382 Human secreted alk  
144 1.1 86 24 ABE84663 Arabidopsis thalia  
145 1.1 87 21 AAG24373 Arabidopsis thalia  
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147 1.1 87 22 ABE24330 Novel human diagno  
148 1.1 88 23 ABE98388 Cytochrome b5-9-68  
149 1.1 90 23 ABE09404 Human ORFX protein  
150 1.1 92 21 AAY44712 Shorthorn sculpin

## ALIGNMENTS

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ID AAB24073 standard; Protein; 653 AA.  
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DT 29-JAN-2001 (first entry)  
XX  
DE Human PRO1111 protein sequence SEQ ID NO:46.  
XX  
KW Human; tumour; diagnosis; neoplastic disease; neoplastic cell growth;  
proliferation; tumorigenesis; identification; cancer; cytostatic;  
KW KW neurotropic; neuroprotective; antiinflammatory; immunosuppressive;  
immunostimulant; antiangiogenic; leukaemia; lymphoid malignancy;  
KW KW neuronal disorder; glial disorder; astrocytal disorder; angiogenic;  
KW KW hypothalamic disorder; glandular disorder; macrophagal disorder;  
KW KW epithelial disorder; stromal disorder; blastocoeic disorder;  
inflammatory disorder; immunologic disorder.  
XX  
OS Homo sapiens.  
XX  
PN WO200053755-A2.  
XX  
PD 14-SEP-2000.  
XX  
PF 06-JAN-2000; 2000WO-US00376.  
XX  
PR 08-MAR-1999; 99WO-US05028.  
PR 02-JUN-1999; 99WO-US12252.  
PR 23-JUN-1999; 99US-0141037.  
PR 07-JUL-1999; 99US-0143048.  
PR 26-JUL-1999; 99US-0145698.  
PR 30-NOV-1999; 99WO-US28313.  
PR 20-DEC-1999; 99WO-US30911.  
PR 05-JAN-2000; 2000WO-US00219.  
XX  
XX (GETH ) GENENTECH INC.  
XX  
PI Ashkenazi AJ, Baker KP, Goddard A, Gurney AL, Hillan KJ, Roy MA;  
PI Watanabe CK, Wood WI;  
XX  
XX WPI; 2000-572270/53.  
XX N-PSDB; AAC58383.  
XX  
XX Thirty PRO polynucleotides encoding PRO polypeptides, useful in the  
treatment, diagnosis and prevention of cancer -  
Claim 61; Fig 34; 286pp; English.  
XX  
XX The present invention describes an isolated antibody that binds to  
one of the human PRO proteins designated PRO212, PRO290, PRO341, PRO535,  
PRO619, PRO717, PRO809, PRO830, PRO848, PRO943, PRO1005, PRO1009,  
PRO1025, PRO1030, PRO1097, PRO1107, PRO1111, PRO1153, PRO1182,  
PRO1187, PRO1281, PRO23, PRO39, PRO834, PRO1317, PRO1710, PRO2094, cell  
PRO2145 OR PRO2198. PRO antagonists can be used to inhibit tumour  
growth. The PRO polypeptides and nucleotides are useful in the  
treatment, diagnosis and prevention of cancer. The antibodies and other  
anti-tumour compounds may be used to treat various conditions, including  
those characterised by overexpression and/or activation of the amplified  
PRO genes. Exemplary conditions or disorders to be treated with such  
antibodies and other compounds include benign or malignant tumours  
(e.g., renal, liver, kidney, bladder, breast, gastric, ovarian,  
colorectal, prostate, pancreatic, lung, vulva, thyroid, hepatic  
carcinomas, sarcomas, glioblastomas, and various head and neck tumours),  
leukaemias and lymphoid malignancies, other disorders such as neuronal,  
gliol, astrocytal, hypothalamic and other glandular, macrophagal,  
epithelial, stromal and blastocoeic disorders, and inflammatory,  
angiogenic and immunologic disorders. AAC58242 to AAC58366 represent PCR  
primers and hybridisation probes used in the isolation of the human PRO  
sequences. AAC58367 to AAC58396 and AAB24057 to AAB24089 represent human  
PRO polynucleotide and protein sequences given in the exemplification of  
the present invention.  
XX



PR 26-JUN-1998; 98US-0090863.  
PR 01-JUL-1998; 98US-0091358.  
PR 01-JUL-1998; 98US-0091360.  
PR 01-JUL-1998; 98US-0091544.  
PR 02-JUL-1998; 98US-0091478.  
PR 02-JUL-1998; 98US-0091486.  
PR 02-JUL-1998; 98US-0091519.  
PR 02-JUL-1998; 98US-0091626.  
PR 02-JUL-1998; 98US-0091628.  
PR 02-JUL-1998; 98US-0091633.  
PR 02-JUL-1998; 98US-0091636.  
PR 02-JUL-1998; 98US-0091673.  
PR 02-JUL-1998; 98US-0091678.  
PR 07-JUL-1998; 98US-0091978.  
PR 07-JUL-1998; 98US-0091982.  
PR 09-JUL-1998; 98US-0092182.  
PR 10-JUL-1998; 98US-0092472.  
PR 20-JUL-1998; 98US-0093339.  
PR 30-JUL-1998; 98US-0094651.  
PR 04-AUG-1998; 98US-0095282.  
PR 04-AUG-1998; 98US-0095285.  
PR 04-AUG-1998; 98US-0095301.  
PR 04-AUG-1998; 98US-0095302.  
PR 04-AUG-1998; 98US-0095318.  
PR 04-AUG-1998; 98US-0095321.  
PR 04-AUG-1998; 98US-0095325.  
PR 10-AUG-1998; 98US-0095916.  
PR 10-AUG-1998; 98US-0095929.  
PR 10-AUG-1998; 98US-0096012.  
PR 11-AUG-1998; 98US-0096143.  
PR 11-AUG-1998; 98US-0096146.  
PR 12-AUG-1998; 98US-0096329.  
PR 12-AUG-1998; 98US-0096757.  
PR 17-AUG-1998; 98US-0096766.  
PR 17-AUG-1998; 98US-0096768.  
PR 17-AUG-1998; 98US-0096773.  
PR 17-AUG-1998; 98US-0096791.  
PR 17-AUG-1998; 98US-0096867.  
PR 17-AUG-1998; 98US-0096891.  
PR 17-AUG-1998; 98US-0096894.  
PR 17-AUG-1998; 98US-0096895.  
PR 17-AUG-1998; 98US-0096897.  
PR 18-AUG-1998; 98US-0096949.  
PR 18-AUG-1998; 98US-0096950.  
PR 18-AUG-1998; 98US-0096959.  
PR 18-AUG-1998; 98US-0096960.  
PR 18-AUG-1998; 98US-0097022.  
PR 19-AUG-1998; 98US-0097141.  
PR 20-AUG-1998; 98US-0097218.  
PR 24-AUG-1998; 98US-0097661.  
PR 26-AUG-1998; 98US-0097951.  
PR 26-AUG-1998; 98US-0097952.  
PR 26-AUG-1998; 98US-0097954.  
PR 26-AUG-1998; 98US-0097955.  
PR 26-AUG-1998; 98US-0097971.  
PR 26-AUG-1998; 98US-0097974.  
PR 26-AUG-1998; 98US-0097978.  
PR 26-AUG-1998; 98US-0097979.  
PR 26-AUG-1998; 98US-0097986.  
PR 26-AUG-1998; 98US-0098014.  
PR 31-AUG-1998; 98US-0098525.  
PR 16-SEP-1998; 98US-0108634.  
PR 12-JAN-1999; 99US-0115565.

(GETH ) GENENTECH INC.

Baker K, Chen J, Goddard A, Gurney AL, Smith V, Watanabe CK;  
Wood WI, Yuan J;

WPI; 2000-072883/06.  
N-PSDB; AAZ65033.

Membrane-bound proteins and related nucleotide sequences

XX

PS

claim 12; Fig 157; 822pp; English.

XX

The invention provides membrane-bound PRO polypeptides and polynucleotides encoding them. The PRO sequences of the invention were identified based on extracellular domain homology screening. The PRO sequences have homology with proteins including LDL receptors, TIE ligands and various enzymes. The membrane-bound proteins and receptor molecules are useful as pharmaceutical and diagnostic agents to block immunoadhesins, for instance, can be used as therapeutic agents to block receptor-ligand interactions. The membrane-bound proteins can also be employed for screening of potential peptide or small molecule inhibitors of the relevant receptor/ligand interaction. The PRO encoding sequences are useful as hybridization probes, in chromosome and gene mapping and in the generation of antisense RNA and DNA. PRO nucleic acid sequences will also be useful for the preparation of PRO polypeptides, especially by recombinant techniques.

XX Sequence 653 AA;

Query Match 100.0%; Score 653; DB 21; Length 653;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLQVTVHHTWNAILLPPVYTAQVWILCAIAAASAGQNCSCNQSKV 60

Db 1 MKLLQVTVHHTWNAILLPPVYTAQVWILCAIAAASAGQNCSCNQSKV 60

QY 61 CTRGLSEVPOGIPSNRYLNMENNIOQADTFRLHLEVLQGRNSIRQIEVAFN 120

Db 61 CTRGLSEVPOGIPSNRYLNMENNIOQADTFRLHLEVLQGRNSIRQIEVAFN 120

QY 121 GLASLNTLEFDNMLTVIPSGAFYLSKRLRMNPNIESIPSYAFNRPVSLMRDLGE 180

Db 121 GLASLNTLEFDNMLTVIPSGAFYLSKRLRMNPNIESIPSYAFNRPVSLMRDLGE 180

QY 181 LKLEYISSEGAPEGLNLYLNCMKIKOMPNTPLVGLLEELMSGNHPEIPGSHFG 240

Db 181 LKLEYISSEGAPEGLNLYLNCMKIKOMPNTPLVGLLEELMSGNHPEIPGSHFG 240

QY 241 LSSLLKLVWMSQVSLIERNAPDGLASLVELNLNHNLSLPHDLFTPLRYLVELHJHN 300

Db 241 LSSLLKLVWMSQVSLIERNAPDGLASLVELNLNHNLSLPHDLFTPLRYLVELHJHN 300

QY 301 PNWCDCDILWLAWLREYIPTNSTCCGCEAPMHRGYLVEVDQASFOCSAPFMDAPR 360

Db 301 PNWCDCDILWLAWLREYIPTNSTCCGCEAPMHRGYLVEVDQASFOCSAPFMDAPR 360

QY 361 DLNISEGRMAELKCRTPPMSVVKWLLPMTVLSHARHPRISVLNDGTLNPSHVLSDTG 420

Db 361 DLNISEGRMAELKCRTPPMSVVKWLLPMTVLSHARHPRISVLNDGTLNPSHVLSDTG 420

QY 421 VYTCWTVNAGNSASAYLNTSTALNTSNYSFPTTVTETTESIPEDTKRYKVPPTS 480

Db 421 VYTCWTVNAGNSASAYLNTSTALNTSNYSFPTTVTETTESIPEDTKRYKVPPTS 480

QY 481 TGYQPAYTSTTVLLQTRVPKQVAVPATDTRKQTSLSDEVMKTKIIIGCFVAVTLLA 540

Db 481 TGYQPAYTSTTVLLQTRVPKQVAVPATDTRKQTSLSDEVMKTKIIIGCFVAVTLLA 540

QY 541 AAMLIVFYKLRKHQORSTVTAARTVEIIQVDEIDIPAATSAATAAPSGVSGEAVLPT 600

Db 541 AAMLIVFYKLRKHQORSTVTAARTVEIIQVDEIDIPAATSAATAAPSGVSGEAVLPT 600

QY 601 IHDHINYNITKPAHGAHTWNSLNSLHPTVTITSEPVYIIQTHTKDKVQETQI 653

Db 601 IHDHINYNITKPAHGAHTWNSLNSLHPTVTITSEPVYIIQTHTKDKVQETQI 653

RESULT 3

AAE09438

ID AAE09438 standard; Protein; 653 AA.

XX

AAE09438;

Human sbgPRO331a protein.

Human; Alzheimer's disease; amyotrophic lateral sclerosis; AUs; Zollinger-Ellison syndrome; immune system disease; schizophrenia; inflammation; haematopoietic disease; anxiety; feeding disorder; aging; anorexia; depression; cardiovascular disease; sleep disorder; seizure; memory alteration; migraine; stroke; asthma; neuropathy; hypoglycaemia; sexual disorder; growth abnormality; infection; autoimmune disease; rheumatoid arthritis; cataractogenesis; anglogenesis; atherosclerosis; cerebral ischaemia; cirrhosis; Huntington's disease; Hodgson's disease; hypercholesterolaemia; headache; amnesia; cardiac arrhythmia; obesity; diabetes mellitus; glomerulonephritis; renovascular hypertension; cancer; vaccine; gene therapy; sbgPRO331a gene.

Homo sapiens.

WO200160850-A1.

23-AUG-2001.

14-FEB-2001; 2001WO-US04703.

14-FEB-2000; 2000US-0182172.

29-FEB-2000; 2000US-0186084.

18-APR-2000; 2000US-0198583.

04-OCT-2000; 2000US-0237963.

(SMIK ) SMITHKLINE BEECHAM CORP.

(SMIK ) SMITHKLINE BEECHAM PLC.

Agarwal P, Kabnick KS, Murdoch PR, Rizvi SK, Smith RP, Xiang Z; WPI; 2001-536566/59.

N-P8DB; AAD16345.

New secreted and membrane associated polypeptides for treating Alzheimer's disease, psoriasis, cancer, enterocolitis, sleep and sexual disorders, stroke, and asthma

Claim 1; Page 56-58; 94pp; English.

The present sequence is a human sbgPRO331a protein.

A membrane bound protein of the invention.

The invention relates to secreted and membrane associated polypeptides and nucleic acid molecules encoding such polypeptides. Sequences of the invention are useful for treating diseases such as Alzheimer's disease, amyotrophic lateral sclerosis (ALS), Zollinger-Ellison syndrome, diseases of the immune system, haematopoietic disease, inflammation, anxiety, schizophrenia, feeding disorders, anorexia, depression, social, sexual and rewarded behaviour, cardiovascular disease, sleep disorder, learning and memory alteration and altered immune response, seizure, migraine, cancer, stroke, asthma, neuropathy, aging, sexual disorders, treatment of transsexuals, growth abnormalities, obesity, infections, autoimmune diseases (e.g. rheumatoid arthritis), cataractogenesis, anglogenesis, disorders associated with healthy maintenance of gastric mucosa and repair of acute and chronic mucosal lesion, lung carcinoma, cerebral ischaemia, atherosclerosis, cirrhosis, Huntington's disease, headache, amnesia, multiple sclerosis, Hodgson's disease, dilated cardiomyopathy, congestive heart failure, cardiac arrhythmias, hypercholesterolaemia, viral and non-viral hepatitis, type I and type II diabetes mellitus, glomerulonephritis, renovascular hypertension, hypoglycaemia, periodic paralyses, tendinitis and malignant hyperthermia. Polypeptides of the invention are used to identify membrane bound and soluble receptors. They are also useful as vaccines for inducing an immunological response in a mammal. Polynucleotides of the invention are used in gene therapy. They are also valuable for chromosome localisation studies and tissue expression studies.

Sequence 653 AA;

Query Match 100.0%; Score 653; DB 22; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLKQVTVVHHHTWNAILLPFVYLTAQWILCAATAAASAGPQNCPCVCSNQSFKVV 60  
DB 1 MKLLKQVTVVHHHTWNAILLPFVYLTAQWILCAATAAASAGPQNCPCVCSNQSFKVV 60

QY 61 CTRRGSLSEVPOGIPSNTRYLNLMENNIIQIADTFRLHLEVLQLRNSIRQIEVGAFN 120  
DB 61 CTRRGSLSEVPOGIPSNTRYLNLMENNIIQIADTFRLHLEVLQLRNSIRQIEVGAFN 120

QY 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLRLWLNNDIESIPSYAFNRVPSLMRLDGE 180  
DB 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLRLWLNNDIESIPSYAFNRVPSLMRLDGE 180

QY 181 LKLEVIYISEGAFEGFLNKLKYLNLGMCNIDKMNPLPLVGLBELEMSGNHFFRPSFPG 240  
DB 181 LKLEVIYISEGAFEGFLNKLKYLNLGMCNIDKMNPLPLVGLBELEMSGNHFFRPSFPG 240

QY 241 LSSLKCLWYMNQSVSLIERNAFDGLASIVELNLAUNNLSLPHDLFTPLRYLVELLHHN 300  
DB 241 LSSLKCLWYMNQSVSLIERNAFDGLASIVELNLAUNNLSLPHDLFTPLRYLVELLHHN 300

QY 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMWRGRLVEVDQASQCSAPFTMDAPR 360  
DB 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMWRGRLVEVDQASQCSAPFTMDAPR 360

QY 361 DNISEGRMAELKCRTPPMSSVKLLPNGTVLSHASRHRPRISVLDNGTLNFSHVLLSDTG 420  
DB 361 DNISEGRMAELKCRTPPMSSVKLLPNGTVLSHASRHRPRISVLDNGTLNFSHVLLSDTG 420

QY 421 VTCMVTVVAGNSNASAYLNWSTABLNSTNSFFTVTVTEISPEDTTRKYKVPPTTS 480  
DB 421 VTCMVTVVAGNSNASAYLNWSTABLNSTNSFFTVTVTEISPEDTTRKYKVPPTTS 480

QY 481 TGYQPAYTTSTTVLIQTTRVPKQAVPATDTTDMKQTSLEVMKTKIIIGCFVAVTLLA 540  
DB 481 TGYQPAYTTSTTVLIQTTRVPKQAVPATDTTDMKQTSLEVMKTKIIIGCFVAVTLLA 540

QY 541 AAMLIVFYKLRKHQORSTVTAARTVEIIQVDEDPAAATSAATAAPSGVSGEAVVLPT 600  
DB 541 AAMLIVFYKLRKHQORSTVTAARTVEIIQVDEDPAAATSAATAAPSGVSGEAVVLPT 600

QY 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTITISEPYIIQTHTKDKVQETQI 653  
DB 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTITISEPYIIQTHTKDKVQETQI 653

RESULT 4  
AAU12390  
ID AAU12390 standard; Protein; 653 AA.  
XX AAU12390;  
AC AAU12390;  
XX 24-OCT-2001 (first entry)  
DT Human PRO1111 polypeptide sequence.  
XX Human secretory and transmembrane; PRO; mammalian; cancer; lung;  
XX breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;  
XX cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;  
XX adipocyte; A-peptide; factor VIIa; gene therapy.  
OS Homo sapiens.  
PN WO200140466-A2.  
XX 07-JUN-2001.  
PD 01-DEC-2000; 2000WO-US32678.  
XX 01-DEC-1999; 99WO-US28301.  
PR





08-OCT-1999; 99US-0158663.  
 30-NOV-1999; 99WO-US28313.  
 01-DEC-1999; 99WO-US28301.  
 16-DEC-1999; 99WO-US30095.  
 20-DEC-1999; 99WO-US30911.  
 05-JAN-2000; 2000WO-US00219.  
 06-JAN-2000; 2000WO-US00376.  
 11-FEB-2000; 2000WO-US03565.  
 18-FEB-2000; 2000WO-US04341.  
 22-FEB-2000; 2000WO-US04414.  
 24-FEB-2000; 2000WO-US04914.  
 02-MAR-2000; 2000WO-US05004.  
 24-MAR-2000; 2000WO-US05841.  
 15-MAR-2000; 2000WO-US06884.  
 20-MAR-2000; 2000WO-US07377.  
 (GETH) GENENTECH INC.  
 Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
 Ferrara N, Fong S, Gerber H, Gerritsen WB, Goddard A, Godowski PJ;  
 Grimaldi CJ, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;  
 Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams FM, Wood WI;  
 Zhang Z;  
 WPI; 2001-032160/04.  
 N-PSDB; AAF44179.  
 PRO polynucleotides used to produce polypeptides used to target  
 bioactive molecules such as toxins, radiolabels or antibodies, to  
 specific cells, to cause targeted cell death -  
 Claim 12; Fig 157; 935pp; English.  
 The present invention describes human secreted and transmembrane PRO  
 proteins. The PRO proteins have cytostatic activity. The PRO proteins  
 can be used for targeted delivery of bioactive molecules, such as  
 toxins, radiolabels or antibodies, that cause cell death. PRO nucleotide  
 sequences, and their fragments, can be used as hybridisation probes, in  
 chromosomal and gene mapping, and in the generation of anti-sense RNA  
 and DNA. They may also be used to produce transgenic animals which are  
 used to develop and screen therapeutically useful reagents. The PRO  
 nucleotide and protein sequence can be used for tissue typing and in  
 treating cancer. Anti-PRO antibodies can be used in diagnostic assays.  
 AAF44270 to AAF44470 represent PCR primers and hybridisation probes used  
 in the isolation of human PRO sequences. AAF44087 to AAF44269 and  
 AAB65154 to AAB65300 represent human PRO polynucleotide and protein  
 sequences given in the exemplification of the present invention.  
 Sequence 653 AA;  
 Query Match 100.0%; Score 653; DB 22; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 1 MKLEQVTHHTWNAILLPVYLTQAQWVILCAATAAASAGPQNCPSVCSNQRKVV 60  
 1 MKLEQVTHHTWNAILLPVYLTQAQWVILCAATAAASAGPQNCPSVCSNQRKVV 60  
 61 CTRGLSEVPGQIPNTRYLNLNMENNIQMIQADTFRLHLHLVQLGRNSIRQIEVGAFN 120  
 61 CTRGLSEVPGQIPNTRYLNLNMENNIQMIQADTFRLHLHLVQLGRNSIRQIEVGAFN 120  
 121 GLASLNTLEFNLWLTVPESGFEVLSKLRLELNENPIESIPSYAFNRVPSLMLDLGE 180  
 121 GLASLNTLEFNLWLTVPESGFEVLSKLRLELNENPIESIPSYAFNRVPSLMLDLGE 180  
 181 LKKLEYISEGAFEGFLNLYNLGNLCNKDKMNTPLVGLSELEMSGNHPEIRPGSFHG 240  
 181 LKKLEYISEGAFEGFLNLYNLGNLCNKDKMNTPLVGLSELEMSGNHPEIRPGSFHG 240  
 241 LSSLKKLWVNSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300  
 241 LSSLKKLWVNSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300

QY 301 PNWCDDILAWMLREYIPNNTCCGCHAPMMRGRLVVEVDQAFQCSAPPIMDAPR 360  
 DB 301 PNWCDDILAWMLREYIPNNTCCGCHAPMMRGRLVVEVDQAFQCSAPPIMDAPR 360  
 QY 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRPRISVLNDGTLNPSHVLLSDTG 420  
 DB 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRPRISVLNDGTLNPSHVLLSDTG 420  
 QY 421 VTCMVTNVAGNSNASAYLNVSTAEALNTSNYSPTTIVTETETETETETETETETETETET 480  
 DB 421 VTCMVTNVAGNSNASAYLNVSTAEALNTSNYSPTTIVTETETETETETETETETETETET 480  
 QY 481 TGYQPAYTTSVTLVLIQTRVPKQAVPATDTTDMQTSLSDEVMTKTLIIIGCFVAVTLLA 540  
 DB 481 TGYQPAYTTSVTLVLIQTRVPKQAVPATDTTDMQTSLSDEVMTKTLIIIGCFVAVTLLA 540  
 QY 541 AAMLIVFYKLRKRHQORSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVVLEPT 600  
 DB 541 AAMLIVFYKLRKRHQORSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVVLEPT 600  
 QY 601 IHDHINNTYKPAHGAHWNTENSLGNSLHPTVTITISEPYIIQTHTKDKVQETQI 653  
 DB 601 IHDHINNTYKPAHGAHWNTENSLGNSLHPTVTITISEPYIIQTHTKDKVQETQI 653  
 RESULT 6  
 AEU66788  
 ID AEU66788 standard; Protein; 653 AA.  
 XX  
 AC AEU66788;  
 XX  
 DT 23-MAY-2003 (first entry)  
 XX  
 DE Human PRO polypeptide #219.  
 XX  
 KW Human; PRO polypeptide; secreted and transmembrane protein;  
 KW tumour necrosis factor-alpha; TNF-alpha; blood; proliferation;  
 KW differentiation; chondrocyte; tumour; genetic disorder;  
 KW cytostatic.  
 XX  
 OS Homo sapiens.  
 XX  
 FN US20030316180-A1.  
 XX  
 PD 20-FEB-2003.  
 XX  
 PF 09-MAY-2002; 2002US-0143114.  
 XX  
 PR 31-MAR-1997; 97WO-US05230.  
 PR 12-JUN-1998; 98WO-US12456.  
 PR 14-JUL-1998; 98WO-US14552.  
 PR 28-AUG-1998; 98WO-US17888.  
 PR 10-SEP-1998; 98WO-US18824.  
 PR 14-SEP-1998; 98WO-US19093.  
 PR 14-SEP-1998; 98WO-US19094.  
 PR 14-SEP-1998; 98WO-US19177.  
 PR 16-SEP-1998; 98WO-US19330.  
 PR 17-SEP-1998; 98WO-US19437.  
 PR 07-OCT-1998; 98WO-US21141.  
 PR 29-OCT-1998; 98WO-US22991.  
 PR 29-OCT-1998; 98WO-US22992.  
 PR 29-OCT-1998; 98WO-US24855.  
 PR 01-DEC-1998; 98WO-US25108.  
 PR 05-JAN-1999; 99WO-US00106.  
 PR 08-MAR-1999; 99WO-US05028.  
 PR 10-MAR-1999; 99WO-US05190.  
 PR 20-APR-1999; 99WO-US08615.  
 PR 14-MAY-1999; 99WO-US10733.  
 PR 02-JUN-1999; 99WO-US12252.  
 PR 01-SEP-1999; 99WO-US20111.  
 PR 08-SEP-1999; 99WO-US20594.  
 PR 13-SEP-1999; 99WO-US20944.

PR 15-SEP-1999; 99WO-US21090.  
 PR 15-SEP-1999; 99WO-US21547.  
 PR 05-OCT-1999; 99WO-US23089.  
 PR 29-NOV-1999; 99WO-US28214.  
 PR 30-NOV-1999; 99WO-US28313.  
 PR 30-NOV-1999; 99WO-US28409.  
 PR 01-DEC-1999; 99WO-US28301.  
 PR 01-DEC-1999; 99WO-US28634.  
 PR 02-DEC-1999; 99WO-US28551.  
 PR 02-DEC-1999; 99WO-US28564.  
 PR 02-DEC-1999; 99WO-US28565.  
 PR 16-DEC-1999; 99WO-US30095.  
 PR 20-DEC-1999; 99WO-US30911.  
 PR 20-DEC-1999; 99WO-US30999.  
 PR 22-DEC-1999; 99WO-US30720.  
 PR 30-DEC-1999; 99WO-US31243.  
 PR 30-DEC-1999; 99WO-US31274.  
 PR 05-JAN-2000; 2000WO-US00219.  
 PR 06-JAN-2000; 2000WO-US00277.  
 PR 06-JAN-2000; 2000WO-US00376.  
 PR 11-FEB-2000; 2000WO-US03565.  
 PR 18-FEB-2000; 2000WO-US04341.  
 PR 18-FEB-2000; 2000WO-US04342.  
 PR 22-FEB-2000; 2000WO-US04414.  
 PR 24-FEB-2000; 2000WO-US04914.  
 PR 24-FEB-2000; 2000WO-US05084.  
 PR 01-MAR-2000; 2000WO-US05601.  
 PR 02-MAR-2000; 2000WO-US05746.  
 PR 02-MAR-2000; 2000WO-US05841.  
 PR 10-MAR-2000; 2000WO-US06319.  
 PR 15-MAR-2000; 2000WO-US06884.  
 PR 20-MAR-2000; 2000WO-US07377.  
 PR 21-MAR-2000; 2000WO-US07532.  
 PR 30-MAR-2000; 2000WO-US08439.  
 PR 17-MAY-2000; 2000WO-US13705.  
 PR 22-MAY-2000; 2000WO-US14042.  
 PR 30-MAY-2000; 2000WO-US14941.  
 PR 02-JUN-2000; 2000WO-US15264.  
 PR 28-JUL-2000; 2000WO-US20710.  
 PR 11-AUG-2000; 2000WO-US22031.  
 PR 23-AUG-2000; 2000WO-US23522.  
 PR 24-AUG-2000; 2000WO-US23328.  
 PR 08-NOV-2000; 2000WO-US30952.  
 PR 10-NOV-2000; 2000WO-US30873.  
 PR 01-DEC-2000; 2000WO-US32678.  
 PR 20-DEC-2000; 2000WO-US34956.  
 PR 28-FEB-2001; 2001WO-US06520.  
 PR 01-MAR-2001; 2001WO-US06666.  
 PR 25-MAY-2001; 2001WO-US17092.  
 PR 01-JUN-2001; 2001WO-US17800.  
 PR 20-JUN-2001; 2001WO-US19692.  
 PR 22-JUN-2001; 2001WO-US20116.  
 PR 29-JUN-2001; 2001WO-US21066.  
 PR 09-JUL-2001; 2001WO-US21735.  
 PR 20-DEC-2000; 2000US-0747259.  
 PR 28-FEB-2001; 2001US-0796498.  
 PR 28-FEB-2001; 2001US-0802706.  
 PR 14-MAR-2001; 2001US-0808689.  
 PR 22-MAR-2001; 2001US-0816744.  
 PR 05-APR-2001; 2001US-0828366.  
 PR 10-MAY-2001; 2001US-0854208.  
 PR 10-MAY-2001; 2001US-0854280.  
 PR 18-MAY-2001; 2001US-0860216.  
 PR 25-MAY-2001; 2001US-0866028.  
 PR 25-MAY-2001; 2001US-0866034.  
 PR 01-JUN-2001; 2001US-0872035.  
 PR 05-JUN-2001; 2001US-0874503.  
 PR 14-JUN-2001; 2001US-0882636.  
 PR 19-JUN-2001; 2001US-0886342.  
 PR 21-JUN-2001; 2001US-0887879.  
 PR 18-JUL-2001; 2001US-0908827.  
 PR 06-AUG-2001; 2001US-0924416.  
 PR 09-AUG-2001; 2001US-0927796.

PR 16-AUG-2001; 2001US-0931836.  
 PR 19-DEC-2001; 2001US-0028072.  
 XX (GETH ) GENENTECH INC.  
 XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;  
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;  
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;  
 XX WPI; 2003-332040/31.  
 DR N-PSDB; ACA03821.  
 XX New secreted and transmembrane PRO nucleic acids, useful for gene  
 PT therapy, in chromosome and gene mapping, as chromosome markers, in  
 PT tissue typing, and in chromosome identification  
 XX Claim 12; Fig 438; 660pp; English.  
 XX The present invention relates to the isolation of novel human PRO  
 CC polypeptides, and the polynucleotide sequences encoding them. The  
 CC PRO polypeptides are secreted and transmembrane proteins. The PRO  
 CC polypeptides are useful for detecting other PRO polypeptides, for  
 CC linking bioactive molecules to cells expressing PRO polypeptides,  
 CC for modulating biological activities of cells expressing PRO  
 CC polypeptides, and for identifying agonists or antagonists.  
 CC The PRO polypeptides are useful for stimulating the release of  
 CC tumor necrosis factor (TNF)-alpha from human blood, for stimulating the  
 CC the proliferation or differentiation of chondrocytes, and detecting the  
 CC presence of tumors. The polynucleotide sequences encoding PRO  
 CC polypeptides are useful as hybridisation probes, in chromosome and  
 CC gene mapping, in the generation of antisense RNA and DNA, in the  
 CC preparation of PRO polypeptides, for generating transgenic animals or  
 CC knockout animals, for the genetic analysis of individuals with genetic  
 CC disorders, and in gene therapy. ABU66570-ABU66844 represent the human  
 CC PRO polypeptides of the invention.  
 CC Note: The sequence data for this patent was obtained in electronic  
 CC format directly from the USPTO web site at  
 CC segdata.uspto.gov/psipsDIDentry.html.  
 XX SQ Sequence 653 AA;  
 Query Match 100.0%; Score 653; DB 24; Length 653;  
 Best Local Similarity 100.0%; Pred. NO. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MKLLNQVTVHHTWNAILLPFVILTAQVWLCAIAAASAGPQNCPSVCSNQSFKV 60  
 DB 1 MKLLNQVTVHHTWNAILLPFVILTAQVWLCAIAAASAGPQNCPSVCSNQSFKV 60  
 QY 61 CTRGLSEVPQGISNTRYLNLMENNIIQADTFRHLHLEVLQGRNIRQIEGAFN 120  
 DB 61 CTRGLSEVPQGISNTRYLNLMENNIIQADTFRHLHLEVLQGRNIRQIEGAFN 120  
 QY 121 GLASINTLELFDNWLTVIPSGAFEYLSKRLRELWRNNPIESIPSYAFNRVPSLWRLDGE 180  
 DB 121 GLASINTLELFDNWLTVIPSGAFEYLSKRLRELWRNNPIESIPSYAFNRVPSLWRLDGE 180  
 QY 181 LKLEYISEGAFEGFLNLYINLGMCNKIDMPNLTPLVGLEELEMENGNHPPPEIRPSFHG 240  
 DB 181 LKLEYISEGAFEGFLNLYINLGMCNKIDMPNLTPLVGLEELEMENGNHPPPEIRPSFHG 240  
 QY 241 LSSLLKLVWNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLPTFLRYLYVELLHN 300  
 DB 241 LSSLLKLVWNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLPTFLRYLYVELLHN 300  
 QY 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYLVVDQASFOCSAFIMDAPR 360  
 DB 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYLVVDQASFOCSAFIMDAPR 360  
 QY 361 DINTSEGRMAELKCRTPMSVXKWLLENGTVLHSHSHPRISVINDGTINFSVLLSDTG 420  
 DB 361 DINTSEGRMAELKCRTPMSVXKWLLENGTVLHSHSHPRISVINDGTINFSVLLSDTG 420

Y 421 VTCMTVTVAGNSASAYLVNSTABLTNSYFFTTVTVTETSPEDTTTKYKPVPTTS 480  
D 421 VTCMTVTVAGNSASAYLVNSTABLTNSYFFTTVTVTETSPEDTTTKYKPVPTTS 480  
Y 481 FGQPAYTSTTVLQTTTRVPKQVAVPATDITDKMOTSLDEVMKTKIIIGCFVAVTLLA 540  
D 481 FGQPAYTSTTVLQTTTRVPKQVAVPATDITDKMOTSLDEVMKTKIIIGCFVAVTLLA 540  
Y 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVLPT 600  
D 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVLPT 600  
Y 601 IHDHINNTYKPAKGAAHTENSIGNSLHPTVTTISEPYIIQHTKDKVQETQI 653  
D 601 IHDHINNTYKPAKGAAHTENSIGNSLHPTVTTISEPYIIQHTKDKVQETQI 653

RESULT 7  
BU67064  
D ABU67064 standard; Protein; 653 AA.  
X X  
X ABU67064;  
X X  
X 27-MAY-2003 (first entry)  
X Human secreted/transmembrane, PRO, protein SEQ ID 438.  
E X  
E Human; secreted protein; transmembrane protein; PRO;  
W Inflammatory disease; organ failure; atherosclerosis; cardiac injury;  
W infertility; birth defects; premature aging; AIDS; biosensor;  
W acquired immunodeficiency syndrome; cancer; diabetic complication;  
W bioreactor; tumour.  
X S  
X Homo sapiens.  
X X  
X US2003032155-A1.  
X D  
X 13-FEB-2003.  
X F  
X 03-MAY-2002; 2002US-0137865.  
X R  
X 31-MAR-1997; 97WO-US05230.  
X R  
X 12-JUN-1998; 98WO-US12456.  
X R  
X 14-JUL-1998; 98WO-US14552.  
X R  
X 28-AUG-1998; 98WO-US17888.  
X R  
X 10-SEP-1998; 98WO-US18824.  
X R  
X 14-SEP-1998; 98WO-US19093.  
X R  
X 14-SEP-1998; 98WO-US19094.  
X R  
X 14-SEP-1998; 98WO-US19177.  
X R  
X 16-SEP-1998; 98WO-US19330.  
X R  
X 17-SEP-1998; 98WO-US19437.  
X R  
X 07-OCT-1998; 98WO-US21141.  
X R  
X 29-OCT-1998; 98WO-US22991.  
X R  
X 29-OCT-1998; 98WO-US22992.  
X R  
X 20-NOV-1998; 98WO-US24855.  
X R  
X 01-DEC-1998; 98WO-US25108.  
X R  
X 05-JAN-1999; 99WO-US00106.  
X R  
X 08-MAR-1999; 99WO-US05028.  
X R  
X 10-MAR-1999; 99WO-US05190.  
X R  
X 20-APR-1999; 99WO-US08615.  
X R  
X 14-MAY-1999; 99WO-US10733.  
X R  
X 02-JUN-1999; 99WO-US12252.  
X R  
X 01-SEP-1999; 99WO-US20111.  
X R  
X 08-SEP-1999; 99WO-US20594.  
X R  
X 13-SEP-1999; 99WO-US20944.  
X R  
X 15-SEP-1999; 99WO-US21090.  
X R  
X 15-SEP-1999; 99WO-US21547.  
X R  
X 05-OCT-1999; 99WO-US23089.  
X R  
X 29-NOV-1999; 99WO-US28214.  
X R  
X 30-NOV-1999; 99WO-US28313.  
X R  
X 30-NOV-1999; 99WO-US28409.  
X R  
X 01-DEC-1999; 99WO-US28301.  
X R  
X 01-DEC-1999; 99WO-US28634.

PR 02-DEC-1999; 99WO-US28551.  
PR 02-DEC-1999; 99WO-US28564.  
PR 02-DEC-1999; 99WO-US28565.  
PR 16-DEC-1999; 99WO-US30095.  
PR 20-DEC-1999; 99WO-US30911.  
PR 20-DEC-1999; 99WO-US30999.  
PR 22-DEC-1999; 99WO-US310720.  
PR 30-DEC-1999; 99WO-US31243.  
PR 30-DEC-1999; 99WO-US31274.  
PR 03-JAN-2000; 2000WO-US00219.  
PR 06-JAN-2000; 2000WO-US00277.  
PR 06-JAN-2000; 2000WO-US00376.  
PR 11-FEB-2000; 2000WO-US03565.  
PR 18-FEB-2000; 2000WO-US04341.  
PR 18-FEB-2000; 2000WO-US04342.  
PR 24-FEB-2000; 2000WO-US04414.  
PR 24-FEB-2000; 2000WO-US04914.  
PR 24-FEB-2000; 2000WO-US05004.  
PR 01-MAR-2000; 2000WO-US05601.  
PR 02-MAR-2000; 2000WO-US05746.  
PR 02-MAR-2000; 2000WO-US05841.  
PR 10-MAR-2000; 2000WO-US06319.  
PR 15-MAR-2000; 2000WO-US06884.  
PR 20-MAR-2000; 2000WO-US07377.  
PR 21-MAR-2000; 2000WO-US07532.  
PR 30-MAR-2000; 2000WO-US08439.  
PR 17-MAY-2000; 2000WO-US13705.  
PR 22-MAY-2000; 2000WO-US14042.  
PR 30-MAY-2000; 2000WO-US14941.  
PR 02-JUN-2000; 2000WO-US15264.  
PR 28-JUL-2000; 2000WO-US20710.  
PR 11-AUG-2000; 2000WO-US22031.  
PR 23-AUG-2000; 2000WO-US23522.  
PR 24-AUG-2000; 2000WO-US23328.  
PR 08-NOV-2000; 2000WO-US30952.  
PR 10-NOV-2000; 2000WO-US30873.  
PR 01-DEC-2000; 2000WO-US32578.  
PR 20-DEC-2000; 2000WO-US34956.  
PR 28-FEB-2001; 2001WO-US06520.  
PR 01-MAR-2001; 2001WO-US06666.  
PR 25-MAY-2001; 2001WO-US17092.  
PR 01-JUN-2001; 2001WO-US17800.  
PR 20-JUN-2001; 2001WO-US19692.  
PR 22-JUN-2001; 2001WO-US20116.  
PR 29-JUN-2001; 2001WO-US21066.  
PR 09-JUL-2001; 2001WO-US21735.  
PR 20-DEC-2000; 2000US-0747259.  
PR 28-FEB-2001; 2001US-0796498.  
PR 09-MAR-2001; 2001US-0802706.  
PR 14-MAR-2001; 2001US-0808689.  
PR 22-MAR-2001; 2001US-0816744.  
PR 05-APR-2001; 2001US-0828366.  
PR 10-MAY-2001; 2001US-0854208.  
PR 10-MAY-2001; 2001US-0854280.  
PR 18-MAY-2001; 2001US-0860216.  
PR 25-MAY-2001; 2001US-0866028.  
PR 25-MAY-2001; 2001US-0866034.  
PR 01-JUN-2001; 2001US-0872035.  
PR 05-JUN-2001; 2001US-0874503.  
PR 14-JUN-2001; 2001US-0882636.  
PR 19-JUN-2001; 2001US-0886342.  
PR 21-JUN-2001; 2001US-0887879.  
PR 18-JUL-2001; 2001US-0908827.  
PR 06-AUG-2001; 2001US-0924419.  
PR 09-AUG-2001; 2001US-0927796.  
PR 16-AUG-2001; 2001US-0931836.  
PR 19-DEC-2001; 2001US-0028072.  
XX  
XX (GETH ) GENENTECH INC.  
XX  
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;  
PI Geritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;  
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;

XX WPI; 2003-331925/31.  
JR N-PSDB; ACA04242.  
XX New secreted and transmembrane nucleic acids and polypeptides.  
PT designated as PRO, useful for treating inflammation, organ failure,  
PT atherosclerosis, cardiac injury, infertility, birth defects, premature  
PT aging, AIDS, or cancer  
XX Claim 12; Fig 438; 659pp; English.  
XX The invention relates to an isolated nucleic acid comprising, or which is  
XX at least 80% identical to, or the full-length coding sequence of, any of  
XX the 275 nucleotide sequences, encoding the corresponding PRO polypeptide  
XX (one of 275 secreted or transmembrane proteins). The nucleic acid  
XX further comprises the full-length coding sequence of the DNA deposited  
XX under American Type Culture Collection (ATCC) accession number in a list  
XX given in the specification. Also included are vectors and host  
XX cells for producing PRO proteins. PRO fusion proteins, anti-PRO  
XX antibodies, PRO extracellular domains and mature sequences, methods  
XX of detecting PRO proteins, methods for stimulating the release of  
XX TNF-alpha (tumour necrosis factor alpha) from human blood,  
XX (and the proliferation of differentiation of chondrocyte cells, the  
XX proliferation of, or gene expression in pericyte cells, the release or  
XX proteoglycans from cartilage, proliferation of inner ear utricular  
XX supporting cells, the proliferation of T-lymphocyte cells, the release  
XX of a cytokine from peripheral blood mononuclear cells (PBMC), or the  
XX proliferation of endothelial cells), a method for modulating the uptake  
XX of glucose or free fatty acid (FFA) by skeletal muscle cells,  
XX a method for inhibiting the binding of A-peptide to factor VIIA,  
XX or the differentiation of adipocyte cells, a method for detecting the  
XX presence of a tumour in a mammal and an oligonucleotide probe derived  
XX from any of the nucleotide sequences cited above. The nucleic acids and  
XX polypeptides are useful for treating inflammatory diseases, organ  
XX failure, atherosclerosis, cardiac injury, infertility, birth defects,  
XX premature aging, AIDS (acquired immunodeficiency syndrome), cancer, or  
XX diabetic complications. The nucleic acids are useful as hybridisation  
XX probes, in chromosome and gene mapping, and in generating antisense RNA  
XX or DNA. The polypeptides are useful as pharmaceuticals, diagnostics,  
XX biosensors or bioreactors. Both are useful in tissue typing.  
XX The present sequence represents a PRO protein of the invention.  
XX Sequence 653 AA;  
XX

DB 361 DLNISEGRMAELKCRTPPMSSVKWLLPENGTVLHSHSRHPRISVINDGTINFSHVLLSDTG 420  
QY 421 VYTCWNTNAGNSASAYLNVSTAEALNTSNYSFFTTVTVTETTESPEDTTRKYPVPTTS 480  
DB 421 VYTCWNTNAGNSASAYLNVSTAEALNTSNYSFFTTVTVTETTESPEDTTRKYPVPTTS 480  
QY 481 TGYOPAYTTSTVLIIQTRVPKQVAVPATOTTOMQTSLEDEVKTKIIIGCFVAVTLLA 540  
DB 481 TGYOPAYTTSTVLIIQTRVPKQVAVPATOTTOMQTSLEDEVKTKIIIGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQRSTVTAAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVVLP 600  
DB 541 AAMLIVFYKLRKHQRSTVTAAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVVLP 600  
QY 601 IHDHINYNTYKPAHGAHWTSNLSLHPTVTVTISSEPIIQTTHKKVQSTQI 653  
DB 601 IHDHINYNTYKPAHGAHWTSNLSLHPTVTVTISSEPIIQTTHKKVQSTQI 653  
RESULT 8  
ABU59869  
ID ABU59869 standard; Protein; 653 AA.  
AC ABU59869;  
DT 13-MAY-2003 (first entry)  
XX Novel secreted and transmembrane protein PRO111.  
XX Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;  
KW cardiac insufficiency disorder; cancer; tumour; immune response;  
KW adrenal cortical capillary endothelial growth; c-fos induction;  
KW vascular endothelial growth factor inhibition; VEGF inhibition;  
KW endothelial cell growth inhibitor; T-lymphocytes stimulation;  
KW retinal neurons cell survival; rod photoreceptor cell survival;  
KW retinal disorder; retinitis pigmentosa; kidney disease;  
KW mammalian kidney mesangial cell proliferation; Berger disease;  
KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;  
KW chondrocyte redifferentiation; sports injury; arthritis.  
XX Homo sapiens.  
XX  
XX US2003017563-A1.  
XX 23-JAN-2003.  
XX 07-MAY-2002; 2002US-0140808.  
XX 31-MAR-1997; 97WO-US05230.  
PR 12-JUN-1998; 98WO-US12456.  
PR 14-JUL-1998; 98WO-US14552.  
PR 28-AUG-1998; 98WO-US17888.  
PR 10-SEP-1998; 98WO-US18824.  
PR 14-SEP-1998; 98WO-US19093.  
PR 14-SEP-1998; 98WO-US19094.  
PR 14-SEP-1998; 98WO-US19177.  
PR 16-SEP-1998; 98WO-US19330.  
PR 17-SEP-1998; 98WO-US19437.  
PR 07-OCT-1998; 98WO-US21141.  
PR 29-OCT-1998; 98WO-US22991.  
PR 29-OCT-1998; 98WO-US22992.  
PR 29-OCT-1998; 98WO-US24855.  
PR 01-DEC-1998; 98WO-US25108.  
PR 05-JAN-1999; 99WO-US00106.  
PR 08-MAR-1999; 99WO-US05028.  
PR 10-MAR-1999; 99WO-US05190.  
PR 20-APR-1999; 99WO-US08615.  
PR 14-MAY-1999; 99WO-US10733.  
PR 02-JUN-1999; 99WO-US12252.  
PR 01-SEP-1999; 99WO-US20111.  
PR 08-SEP-1999; 99WO-US20594.  
PR 13-SEP-1999; 99WO-US20944.

15-SEP-1999; 99WO-US21090.  
 15-SEP-1999; 99WO-US21547.  
 15-OCT-1999; 99WO-US23089.  
 29-NOV-1999; 99WO-US28214.  
 30-NOV-1999; 99WO-US28313.  
 30-NOV-1999; 99WO-US28409.  
 01-DEC-1999; 99WO-US28301.  
 01-DEC-1999; 99WO-US28634.  
 02-DEC-1999; 99WO-US28551.  
 02-DEC-1999; 99WO-US28564.  
 02-DEC-1999; 99WO-US28565.  
 16-DEC-1999; 99WO-US30098.  
 16-DEC-1999; 99WO-US30911.  
 20-DEC-1999; 99WO-US30999.  
 22-DEC-1999; 99WO-US30720.  
 30-DEC-1999; 99WO-US31243.  
 30-DEC-1999; 99WO-US31274.  
 05-JAN-2000; 2000WO-US00219.  
 06-JAN-2000; 2000WO-US00277.  
 06-JAN-2000; 2000WO-US00376.  
 11-FEB-2000; 2000WO-US03565.  
 18-FEB-2000; 2000WO-US04341.  
 18-FEB-2000; 2000WO-US04342.  
 22-FEB-2000; 2000WO-US04414.  
 24-FEB-2000; 2000WO-US04914.  
 24-FEB-2000; 2000WO-US05004.  
 01-MAR-2000; 2000WO-US05601.  
 02-MAR-2000; 2000WO-US05746.  
 02-MAR-2000; 2000WO-US05841.  
 10-MAR-2000; 2000WO-US06319.  
 15-MAR-2000; 2000WO-US06884.  
 20-MAR-2000; 2000WO-US07377.  
 21-MAR-2000; 2000WO-US07532.  
 30-MAR-2000; 2000WO-US08439.  
 17-MAY-2000; 2000WO-US13705.  
 22-MAY-2000; 2000WO-US14042.  
 30-MAY-2000; 2000WO-US14941.  
 02-JUN-2000; 2000WO-US15264.  
 28-JUL-2000; 2000WO-US20710.  
 11-AUG-2000; 2000WO-US22031.  
 23-AUG-2000; 2000WO-US23522.  
 24-AUG-2000; 2000WO-US23328.  
 08-NOV-2000; 2000WO-US30952.  
 10-NOV-2000; 2000WO-US30873.  
 01-DEC-2000; 2000WO-US32678.  
 20-DEC-2000; 2000WO-US34956.  
 28-FEB-2001; 2001WO-US06520.  
 01-MAR-2001; 2001WO-US06566.  
 25-MAY-2001; 2001WO-US17092.  
 01-JUN-2001; 2001WO-US17800.  
 20-JUN-2001; 2001WO-US19692.  
 22-JUN-2001; 2001WO-US20116.  
 29-JUN-2001; 2001WO-US21065.  
 09-JUL-2001; 2001WO-US21735.  
 20-DEC-2000; 2000US-0747259.  
 28-FEB-2001; 2001US-0796498.  
 09-MAR-2001; 2001US-0802706.  
 14-MAR-2001; 2001US-0808689.  
 22-MAR-2001; 2001US-0816744.  
 05-APR-2001; 2001US-0828366.  
 10-MAY-2001; 2001US-0854208.  
 10-MAY-2001; 2001US-0854280.  
 18-MAY-2001; 2001US-0860216.  
 25-MAY-2001; 2001US-0866028.  
 25-MAY-2001; 2001US-0866034.  
 01-JUN-2001; 2001US-0872035.  
 05-JUN-2001; 2001US-0874503.  
 14-JUN-2001; 2001US-0882636.  
 19-JUN-2001; 2001US-0886342.  
 21-JUN-2001; 2001US-0887879.  
 18-JUL-2001; 2001US-0908827.  
 06-AUG-2001; 2001US-0924419.  
 09-AUG-2001; 2001US-0927796.

PR 16-AUG-2001; 2001US-0931836.  
 PR 19-DEC-2001; 2001US-0028072.  
 XX (GETH ) GENENTECH INC.  
 PA Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;  
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;  
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;  
 XX WPI; 2003-148238/14.  
 DR N-PSDB; ABX89359.  
 XX Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346  
 PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes  
 PT are therapeutically useful for enhancing immune response and in cancer  
 PT treatments -  
 XX Claim 12; Fig 438; 659pp; English.  
 XX The invention describes an isolated human PRO polypeptide. The PRO  
 CC polypeptides are useful in detecting human PRO polypeptides in a sample, in  
 CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and  
 CC in modulating at least one biological activity of a cell expressing a PRO  
 CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus  
 CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186  
 CC stimulate adrenal cortical insufficiency disorders. PRO536, and PRO536,  
 CC PRO943, PRO828, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,  
 CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus  
 CC useful for treating conditions or disorders where angiogenesis would be  
 CC beneficial, e.g. wound healing and antagonist of this polypeptide are  
 CC useful for treating cancerous tumors. PRO812 inhibits vascular  
 CC endothelial growth factor (VEGF) stimulated proliferation of endothelial  
 CC cells and is thus useful for inhibiting endothelial cell growth in  
 CC mammals which would be beneficial in inhibiting tumour growth. PRO826,  
 CC PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of  
 CC stimulated T-lymphocytes and are therapeutically useful for enhancing  
 CC immune response. PRO828, PRO826, PRO1068 or PRO132 enhance survival of  
 CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of  
 CC rod photoreceptor cells) and therefore are useful for treating retinal  
 CC disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813  
 CC and PRO1066 induce proliferation of mammalian kidney mesangial cells,  
 CC and therefore are useful for treating kidney disorders associated with  
 CC decreased mesangial cell function such as Berger disease or other  
 CC nephropathies associated with dermatitis, herpetiformis or Crohn's  
 CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the  
 CC proliferation and/or redifferentiation of chondrocytes in culture and  
 CC are thus useful for treating sports injuries, and arthritis. This  
 CC is the amino acid sequence of a novel human PRO protein.  
 XX Sequence 653 AA;  
 SQ  
 Query Match 100.0%; Score 653; DB 24; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 MKLLQVTVHHHTWNAILLPVYLTQVWILCAIAAASAGPNCPSVCSCNQFSKV 60  
 DB 1 MKLLQVTVHHHTWNAILLPVYLTQVWILCAIAAASAGPNCPSVCSCNQFSKV 60  
 QY 61 CTRGGLSEVPQIPSNTRYLNMENNIIQMIQAD7FRHLHLHLVQLGRNSIRQIEVGA 120  
 DB 61 CTRGGLSEVPQIPSNTRYLNMENNIIQMIQAD7FRHLHLHLVQLGRNSIRQIEVGA 120  
 QY 121 GLASINTLEFDNWLTVIPSGAFYLSKLRELWLNRPPIESIPSYAFNRVPSLRLDGE 180  
 DB 121 GLASINTLEFDNWLTVIPSGAFYLSKLRELWLNRPPIESIPSYAFNRVPSLRLDGE 180  
 QY 181 LKKLEYISGAFEGFLNLYNLGMCNIKOMPNTPLVGLBELEMSGNHFFPIRPSFGH 240  
 DB 181 LKKLEYISGAFEGFLNLYNLGMCNIKOMPNTPLVGLBELEMSGNHFFPIRPSFGH 240  
 QY 241 LSSLKKLWMMNSQVSLIERNAPDGLASLVELNLAHNMSSLPHDLFTPLRYLVELHLHN 300  
 DB 241 LSSLKKLWMMNSQVSLIERNAPDGLASLVELNLAHNMSSLPHDLFTPLRYLVELHLHN 300

b 241 LSSLLKLLWNSQVSLIERNADFGLASIVELNLAHNNLSSLDHDLFTPLRYLVELLHNN 300  
y 301 PWNCDIILAWMLREYIPTNSTCCGRCHAPWHRGRYLVNDQASQCSAPFIMDAPR 360  
b 301 PWNCDIILAWMLREYIPTNSTCCGRCHAPWHRGRYLVNDQASQCSAPFIMDAPR 360  
y 361 DNLISGRVAKLCRTPPWSSVKWLLPNGTVLSHARHPRISVLNDGTINPSHVLLSDTG 420  
b 361 DNLISGRVAKLCRTPPWSSVKWLLPNGTVLSHARHPRISVLNDGTINPSHVLLSDTG 420  
y 421 VYTCMTNVAGNSASAYLNVSTAEALNTSNYSFFTVTVETTEISPEDTRKYPVPTTS 480  
b 421 VYTCMTNVAGNSASAYLNVSTAEALNTSNYSFFTVTVETTEISPEDTRKYPVPTTS 480  
y 481 TGYCPAYTSTTVLLIQTRVPKQVAPVADTTDKMGTSLDVNMKTKIILGCFVAVTLLA 540  
b 481 TGYCPAYTSTTVLLIQTRVPKQVAPVADTTDKMGTSLDVNMKTKIILGCFVAVTLLA 540  
y 541 AAMLVFVKLRKHQORSTVTAARTVEIILQVDEDIPAATAAATAPSGVSGEAVVLPT 600  
b 541 AAMLVFVKLRKHQORSTVTAARTVEIILQVDEDIPAATAAATAPSGVSGEAVVLPT 600  
y 601 IHDHINTYKPAHGAHWNTENSLGSLHPTVTITSEPYIIQHTKDKVQETQI 653  
b 601 IHDHINTYKPAHGAHWNTENSLGSLHPTVTITSEPYIIQHTKDKVQETQI 653

RESULT 9  
BU59110  
D ABU59110 standard; Protein; 653 AA.  
X X ABU59110;  
X X  
X X 28-APR-2003 (first entry)  
X X  
X X Novel human secreted or transmembrane protein PRO1111.  
X X Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;  
X X cardiac insufficiency disorder; cancer; tumour; immune response;  
X X adrenal cortical capillary endothelial growth; c-fos induction;  
X X vascular endothelial growth factor inhibition; VEGF inhibition;  
X X endothelial cell growth inhibitor; T-lymphocytes stimulation;  
X X retinal neurons cell survival; rod photoreceptor cell survival;  
X X retinal disorder; retinitis pigmentosa; kidney disease;  
X X mammalian kidney mesangial cell proliferation; Berger disease;  
X X dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;  
X X chondrocyte redifferentiation; sports injury; arthritis.  
X X Homo sapiens.  
X X  
X X US2002132252-A1.  
X X  
X X 19-SEP-2002.  
X X  
X X 14-NOV-2001; 2001US-0990442.  
X X  
X X 05-NOV-1997; 97WO-US20069.  
X X 16-SEP-1998; 98WO-US19330.  
X X 17-SEP-1998; 98WO-US19437.  
X X 07-OCT-1998; 98WO-US21141.  
X X 01-DEC-1998; 98WO-US25108.  
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X X 08-MAR-1999; 99WO-US05028.  
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X X 20-DEC-1999; 99WO-US30095.  
X X 06-JAN-2000; 2000WO-US00219.  
X X 06-JAN-2000; 2000WO-US00376.

PR 11-FEB-2000; 2000WO-US03565.  
PR 18-FEB-2000; 2000WO-US04341.  
PR 22-FEB-2000; 2000WO-US04414.  
PR 24-FEB-2000; 2000WO-US04514.  
PR 02-MAR-2000; 2000WO-US05004.  
PR 10-MAR-2000; 2000WO-US06319.  
PR 15-MAR-2000; 2000WO-US06884.  
PR 20-MAR-2000; 2000WO-US07377.  
PR 30-MAR-2000; 2000WO-US08439.  
PR 15-MAY-2000; 2000WO-US13358.  
PR 17-MAY-2000; 2000WO-US13705.  
PR 22-MAY-2000; 2000WO-US14042.  
PR 30-MAY-2000; 2000WO-US14941.  
PR 02-JUN-2000; 2000WO-US15264.  
PR 28-JUL-2000; 2000WO-US20710.  
PR 11-AUG-2000; 2000WO-US22031.  
PR 23-AUG-2000; 2000WO-US23522.  
PR 24-AUG-2000; 2000WO-US23328.  
PR 08-NOV-2000; 2000WO-US30952.  
PR 01-DEC-2000; 2000WO-US32678.  
PR 28-FEB-2001; 2001WO-US06520.  
PR 01-JUN-2001; 2001WO-US17800.  
PR 20-JUN-2001; 2001WO-US19892.  
PR 29-JUN-2001; 2001WO-US21066.  
PR 09-JUL-2001; 2001WO-US21735.  
PR 16-JUN-1997; 97US-049787P.  
PR 17-OCT-1997; 97US-062250P.  
PR 12-NOV-1997; 97US-065186P.  
PR 13-NOV-1997; 97US-065311P.  
PR 24-NOV-1997; 97US-066770P.  
PR 25-FEB-1998; 98US-075945P.  
PR 20-MAR-1998; 98US-078910P.  
PR 28-APR-1998; 98US-083322P.  
PR 07-MAY-1998; 98US-084600P.  
PR 28-MAY-1998; 98US-087106P.  
PR 02-JUN-1998; 98US-087607P.  
PR 02-JUN-1998; 98US-087609P.  
PR 02-JUN-1998; 98US-087759P.  
PR 03-JUN-1998; 98US-087827P.  
PR 04-JUN-1998; 98US-088021P.  
PR 04-JUN-1998; 98US-088025P.  
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PR 04-JUN-1998; 98US-088029P.  
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PR 05-JUN-1998; 98US-088217P.  
PR 09-JUN-1998; 98US-088655P.  
PR 10-JUN-1998; 98US-088734P.  
PR 10-JUN-1998; 98US-088738P.  
PR 10-JUN-1998; 98US-088742P.  
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PR 10-JUN-1998; 98US-088824P.  
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PR 11-JUN-1998; 98US-088861P.  
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PR 16-JUN-1998; 98US-089440P.  
PR 16-JUN-1998; 98US-089512P.  
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PR 17-JUN-1998; 98US-089653P.  
PR 18-JUN-1998; 98US-089801P.

R 18-JUN-1998; 98US-089907P.  
R 18-JUN-1998; 98US-089908P.  
R 28-AUG-2001; 2001US-0941992.  
X (GETH) GENENTECH INC.  
X Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
X Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PU;  
X Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;  
X Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PW, Wood NI;  
X Zhang Z;  
X WPI: 2003-247083/24.  
R N-PSDB; ABX80269.  
R Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346  
R and PRO1375, which stimulate proliferation of stimulated T-lymphocytes  
R treatments - useful for enhancing immune response and in cancer  
R treatments -  
X Claim 12; Fig 157; 648pp; English.  
X The invention describes an isolated human PRO polypeptide. The PRO  
X polypeptides are useful in detecting PRO polypeptides in a sample, in  
X linking a bioactive molecule to a cell expressing a PRO polypeptide, and  
X in modulating at least one biological activity of a cell expressing a PRO  
X polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus  
X useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186  
X stimulate adrenal cortical capillary endothelial growth, and PRO536,  
X PRO943, PRO828, PRO1068 or PRO535, PRO826, PRO819, PRO1126,  
X PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus  
X useful for treating conditions or disorders where angiogenesis would be  
X beneficial, e.g. wound healing and antagonist of this polypeptide are  
X useful for treating cancerous tumours. PRO812 inhibits vascular  
X endothelial growth factor (VEGF) stimulated proliferation of endothelial  
X cells and is thus useful for inhibiting endothelial cell growth in  
X mammals which would be beneficial in inhibiting tumour growth. PRO826,  
X PRO1068, PRO1184, PRO1346 and PRO1375 stimulate proliferation of  
X stimulated T-lymphocytes and are therapeutically useful for enhancing  
X immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of  
X retinal neurons cells (PRO1132 is also enhances survival/proliferation of  
X rod photoreceptor cells) and therefore are useful for treating retinal  
X disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813  
X and PRO1066 induce proliferation of mammalian kidney mesangial cells,  
X and therefore are useful for treating kidney disorders associated with,  
X decreased mesangial cell function such as Berger disease or other  
X nephropathies associated with dermatitis, herpeticiformis or Crohn's  
X disease. PRO1310, PRO844, PRO1312, PRO1132 and PRO1387 induce the  
X proliferation and/or redifferentiation of chondrocytes in culture and  
X are thus useful for treating sports injuries, and arthritis. This  
X is the amino acid sequence of a novel human PRO protein.  
X  
X Q Sequence 653 AA;  
Query Match 100.0%; Score 653; DB 24; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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b 1 MKLLWQVTHHTWNAILLPFFYLLAQWILCAALAAASAGPQNCPSVCSCNQFSKV 60  
Y 61 CTRRGSEVPEQIPSNTRYLNLMENNIMQADTFPHLHLVQLGNSIRQIEVAFN 120  
b 61 CTRRGSEVPEQIPSNTRYLNLMENNIMQADTFPHLHLVQLGNSIRQIEVAFN 120  
Y 121 GLASLNTLBLEFQNLTVIPSGAFYLSKLRELWLNPNPIESIPYAFNRVPSLRLDLGE 180  
b 121 GLASLNTLBLEFQNLTVIPSGAFYLSKLRELWLNPNPIESIPYAFNRVPSLRLDLGE 180  
Y 181 LKKLEYISGAEFGFLNLYLNLCNWKNDPNTPLVGLSELEMSGNHPEIRPGSFHG 240  
b 181 LKKLEYISGAEFGFLNLYLNLCNWKNDPNTPLVGLSELEMSGNHPEIRPGSFHG 240

QY 241 LSSLKKLWNNQVSLIERNAPGLASIVELANHNLSLPHDLFTPLRYLVELLHHN 300  
Db 241 LSSLKKLWNNQVSLIERNAPGLASIVELANHNLSLPHDLFTPLRYLVELLHHN 300  
QY 301 PNKDCDILWLAWLREXIPTNSTCCGRCHAPMHRGRYLVNEVDQASFCQSAPFIMDAPR 360  
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QY 361 DLNISGRVAELKCRTPPMSSVKWLLPNGTVLSHASRHRPRISVNDGTLNFSHVLSDTG 420  
Db 361 DLNISGRVAELKCRTPPMSSVKWLLPNGTVLSHASRHRPRISVNDGTLNFSHVLSDTG 420  
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Db 421 VYTCMTNVAGNSNAYSALNVSTAEINTSNYSFFTVTVTEIETSPEDTRKYPVPTIS 480  
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RESULT 10  
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ID ABUS9257 standard; Protein; 653 AA.  
XX AC ABUS9257;  
XX DT 22-APR-2003 (first entry)  
XX Human secreted/transmembrane protein, #93.  
XX Human; PRO; secreted; transmembrane; pharmaceutical;  
XX diagnostic; biosensor; bioreactor; tumour; therapeutic;  
XX gene therapy; tumour-associated antigenic target; TAT; ADEPT;  
XX antibody-dependent enzyme mediated prodrug therapy; cytostatic.  
XX Homo sapiens.  
XX OS US2003027162-A1.  
XX PN 06-FEB-2003.  
XX PD 15-NOV-2001; 2001US-0997428.  
XX PF 05-NOV-1997; 97WO-US20069.  
XX PR 16-SEP-1998; 98WO-US19330.  
XX PR 17-SEP-1998; 98WO-US19437.  
XX PR 07-OCT-1998; 98WO-US21141.  
XX PR 01-DEC-1998; 98WO-US21108.  
XX PR 05-JAN-1999; 99WO-US00106.  
XX PR 08-MAR-1999; 99WO-US05028.  
XX PR 02-JUN-1999; 99WO-US12252.  
XX PR 15-SEP-1999; 99WO-US21090.  
XX PR 15-SEP-1999; 99WO-US21547.  
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XX PR 01-DEC-1999; 99WO-US28301.  
XX PR 01-DEC-1999; 99WO-US28634.  
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XX PR 06-JAN-2000; 2000WO-US00376.  
XX PR 11-FEB-2000; 2000WO-US03565.  
XX PR 18-FEB-2000; 2000WO-US04341.  
XX PR 22-FEB-2000; 2000WO-US04414.



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PR	15-MAY-2000;	200WO-US13358.	PR	24-JUN-1998;	98US-090429P.
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PR	13-NOV-1997;	97US-065311P.	PR	01-JUL-1998;	98US-091544P.
PR	24-NOV-1997;	97US-066770P.	PR	02-JUL-1998;	98US-091478P.
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PR	19-JUN-1998;	98US-089947P.	PR	26-AUG-1998;	98US-097954P.

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26-AUG-1998; 98US-097955P.
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31-AUG-1998; 98US-098525P.
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17-SEP-1998; 98US-100858P.
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61 C T R G L S E V P Q G I P N T R Y L N L M E N N I Q M I Q A D T P R H L H L E V I Q L G R N S I R Q I E V G A F N 120

121 G L A S L N T L E L F D N W L T V I P S G A F E Y L S K L R E L M L R N N P I E S I P S V A F N R V P S L A R L D L G E 180
121 G L A S L N T L E L F D N W L T V I P S G A F E Y L S K L R E L M L R N N P I E S I P S V A F N R V P S L A R L D L G E 180

181 L K K L E Y I S E G A F E G L F N L K Y L N L M C N I K D M F N L T P L V G L E E L M S G N H F P E I R P G S F H G 240
181 L K K L E Y I S E G A F E G L F N L K Y L N L M C N I K D M F N L T P L V G L E E L M S G N H F P E I R P G S F H G 240

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241 L S L K K L W M S Q V S L I E R N A P D G L A S L V E L N L A H N L S S L P H D L F T P L R Y L V E L R L H N 300

301 P N W C D D I L A W L R E V I P T N S T C G R C H A P M E M R G Y L V E V D Q A S F Q C S A P I M D A P R 360
301 P N W C D D I L A W L R E V I P T N S T C G R C H A P M E M R G Y L V E V D Q A S F Q C S A P I M D A P R 360

361 D L N I S E G R M A E L K C R T P M S S V K L L P N G T V L S H A S R H P R I S V L N D G T I N F S H V L L S D T G 420
361 D L N I S E G R M A E L K C R T P M S S V K L L P N G T V L S H A S R H P R I S V L N D G T I N F S H V L L S D T G 420

421 V T C M W T N V A G N S A Y L N V S T A E L N S Y S F T T V T E T I S P E D T T R K Y K P V P T T S 480
421 V T C M W T N V A G N S A Y L N V S T A E L N S Y S F T T V T E T I S P E D T T R K Y K P V P T T S 480

481 T G V Q P A Y T T S T V L I Q T T R V P K Q V A P A T D T D K M Q T S L D E V M K T K I I I G C F V A V T I L A 540
481 T G V Q P A Y T T S T V L I Q T T R V P K Q V A P A T D T D K M Q T S L D E V M K T K I I I G C F V A V T I L A 540

541 A A M L I V F Y K L R G H O O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600
541 A A M L I V F Y K L R G H O O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600

601 I H D H I N Y N T K P A R G A H T W E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653
601 I H D H I N Y N T K P A R G A H T W E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653

```

RESULT 11

BU59406

D ABUS9406 standard; Protein; 653 AA.

X ABUS9406;

X 22-APR-2003 (first entry)

X Novel human secreted or transmembrane protein PRO1344.

X

Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;  
cardiac insufficiency disorder; cancer; tumour; immune response;  
adrenal cortical capillary endothelial growth; c-fos induction;  
vascular endothelial growth factor inhibition; VEGF inhibition;  
endothelial cell growth inhibitor; T-lymphocyte stimulation;  
retinal neurons cell survival; rod photoreceptor cell survival;  
retinal disorder; retinitis pigmentosa; kidney disorder;  
mammalian kidney mesangial cell proliferation; Berger disease;  
dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;  
chondrocyte redifferentiation; sports injury; arthritis.

XX Homo sapiens.

XX US2003027985-A1.

XX 06-FEB-2003.

XX 14-NOV-2001; 2001US-0990562.

XX 05-NOV-1997; 97WO-US20069.

XX 16-SEP-1998; 98WO-US19330.

XX 17-SEP-1998; 98WO-US19437.

XX 07-OCT-1998; 98WO-US21141.

XX 01-DEC-1998; 98WO-US21108.

XX 05-JAN-1999; 99WO-US00106.

XX 08-MAR-1999; 99WO-US05028.

XX 02-JUN-1999; 99WO-US12252.

XX 15-SEP-1999; 99WO-US21090.

XX 15-SEP-1999; 99WO-US21547.

XX 30-NOV-1999; 99WO-US28313.

XX 01-DEC-1999; 99WO-US28301.

XX 01-DEC-1999; 99WO-US28634.

XX 20-DEC-1999; 99WO-US30095.

XX 16-DEC-1999; 99WO-US30911.

XX 05-JAN-2000; 2000WO-US00219.

XX 06-JAN-2000; 2000WO-US00376.

XX 11-FEB-2000; 2000WO-US03565.

XX 18-FEB-2000; 2000WO-US04341.

XX 22-FEB-2000; 2000WO-US04414.

XX 24-FEB-2000; 2000WO-US04914.

XX 24-FEB-2000; 2000WO-US05004.

XX 02-MAR-2000; 2000WO-US05841.

XX 10-MAR-2000; 2000WO-US06319.

XX 15-MAR-2000; 2000WO-US06884.

XX 20-MAR-2000; 2000WO-US07377.

XX 30-MAR-2000; 2000WO-US08439.

XX 15-MAY-2000; 2000WO-US13358.

XX 17-MAY-2000; 2000WO-US13705.

XX 22-MAY-2000; 2000WO-US14042.

XX 30-MAY-2000; 2000WO-US14941.

XX 02-JUN-2000; 2000WO-US15264.

XX 28-JUL-2000; 2000WO-US20710.

XX 11-AUG-2000; 2000WO-US22031.

XX 23-AUG-2000; 2000WO-US23522.

XX 24-AUG-2000; 2000WO-US23328.

XX 08-NOV-2000; 2000WO-US30952.

XX 01-DEC-2000; 2000WO-US32678.

XX 28-FEB-2001; 2001WO-US05520.

XX 01-JUN-2001; 2001WO-US17800.

XX 20-JUN-2001; 2001WO-US19692.

XX 29-JUN-2001; 2001WO-US21066.

XX 09-JUL-2001; 2001WO-US21735.

XX 15-JUN-1997; 97US-049787P.

XX 17-OCT-1997; 97US-062250P.

XX 12-NOV-1997; 97US-065186P.

XX 13-NOV-1997; 97US-065311P.

XX 24-NOV-1997; 97US-066770P.

XX 25-FEB-1998; 98US-075945P.

XX 20-MAR-1998; 98US-078910P.

XX 28-APR-1998; 98US-083322P.

XX 07-MAY-1998; 98US-084500P.

XX 28-MAY-1998; 98US-087106P.

XX 02-JUN-1998; 98US-087607P.

PR	02-JUN-1998;	98US-087609P.	PR	07-JUL-1998;	98US-091978P.
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PR	02-JUL-1998;	98US-091633P.			
PR	02-JUL-1998;	98US-091646P.			
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Best Local Similarity 100.0%; Pred. No. 0;

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QY	181	LKKLEYISBGAPEGLFNLKYINTLGMCNIKOMPNTLVLGLEELEMSCNHPEIRPGSFHG 240
DB	181	LKKLEYISBGAPEGLFNLKYINTLGMCNIKOMPNTLVLGLEELEMSCNHPEIRPGSFHG 240
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DB	241	LSSLLKKLWVMSQVSLTERNAFDGLASLVELNLAHNNLSLPHDLPTPLAYLYVELHLHNN 300
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301 PNCDCDIHLAWLREYIPTNSTCCGRCHAPMGRGLVLEVDQASFPQCSAPPIMDAPR 360  
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361 DLNISEGMAELKCRTPMSSVKMLLNGTVLSHSHRPRISVLNDGTLNPSHVLSDTG 420  
421 VTCMVTVNAGNSASALVNSTAEIINTSNYSFPTTVVETTESPEDTTRKYPVPTTS 480  
421 VTCMVTVNAGNSASALVNSTAEIINTSNYSFPTTVVETTESPEDTTRKYPVPTTS 480  
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J ABU60541 standard; Protein; 653 AA.  
Z  
Z ABU60541;  
I 01-MAY-2003 (first entry)  
K Human secreted/transmembrane protein, #93.  
E Human; PRO; secreted; transmembrane; signal peptide;  
M pharmaceutical; diagnostic; therapeutic; gene therapy.  
S Homo sapiens.  
X  
X US2002160384-A1.  
D 31-OCT-2002.  
F 14-NOV-2001; 2001US-0992598.  
X 05-NOV-1997; 97WO-US200069.  
R 16-SEP-1998; 98WO-US19330.  
R 17-SEP-1998; 98WO-US19437.  
R 07-OCT-1998; 98WO-US21141.  
R 01-DEC-1998; 98WO-US25108.  
R 05-JAN-1999; 98WO-US00106.  
R 08-MAR-1999; 98WO-US05028.  
R 02-JUN-1999; 98WO-US12252.  
R 15-SEP-1999; 98WO-US21090.  
R 30-NOV-1999; 98WO-US28313.  
R 01-DEC-1999; 98WO-US28301.  
R 01-DEC-1999; 98WO-US28634.  
R 16-DEC-1999; 98WO-US30095.  
R 20-DEC-1999; 98WO-US30911.  
R 05-JAN-2000; 2000WO-US00219.  
R 06-JAN-2000; 2000WO-US00376.  
R 11-FEB-2000; 2000WO-US03565.  
R 18-FEB-2000; 2000WO-US04341.  
R 22-FEB-2000; 2000WO-US04414.  
R 24-FEB-2000; 2000WO-US04914.  
R 24-FEB-2000; 2000WO-US05004.  
R 02-MAR-2000; 2000WO-US05841.  
R 10-MAR-2000; 2000WO-US06319.  
R 15-MAR-2000; 2000WO-US06384.  
R 20-MAR-2000; 2000WO-US07377.  
R 30-MAR-2000; 2000WO-US08439.  
R 15-MAY-2000; 2000WO-US13358.  
R 17-MAY-2000; 2000WO-US13705.

22-MAY-2000; 2000WO-US14042.  
PR 30-MAY-2000; 2000WO-US14941.  
PR 02-JUN-2000; 2000WO-US15264.  
PR 28-JUL-2000; 2000WO-US20710.  
PR 11-AUG-2000; 2000WO-US22031.  
PR 23-AUG-2000; 2000WO-US23522.  
PR 24-AUG-2000; 2000WO-US23328.  
PR 08-NOV-2000; 2000WO-US30952.  
PR 01-DEC-2000; 2000WO-US32678.  
PR 28-FEB-2001; 2001WO-US06520.  
PR 01-JUN-2001; 2001WO-US17800.  
PR 20-JUN-2001; 2001WO-US19692.  
PR 29-JUN-2001; 2001WO-US21066.  
PR 09-JUL-2001; 2001WO-US21735.  
PR 16-JUN-1997; 97US-049787P.  
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PR 12-NOV-1997; 97US-065186P.  
PR 13-NOV-1997; 97US-065511P.  
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PR 25-FEB-1998; 98US-075945P.  
PR 20-MAR-1998; 98US-078910P.  
PR 28-APR-1998; 98US-083322P.  
PR 07-MAY-1998; 98US-084600P.  
PR 28-MAY-1998; 98US-087106P.  
PR 02-JUN-1998; 98US-087607P.  
PR 02-JUN-1998; 98US-087609P.  
PR 02-JUN-1998; 98US-087759P.  
PR 03-JUN-1998; 98US-087827P.  
PR 04-JUN-1998; 98US-088021P.  
PR 04-JUN-1998; 98US-088025P.  
PR 04-JUN-1998; 98US-088026P.  
PR 04-JUN-1998; 98US-088028P.  
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PR 04-JUN-1998; 98US-088030P.  
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PR 04-JUN-1998; 98US-088326P.  
PR 05-JUN-1998; 98US-088167P.  
PR 05-JUN-1998; 98US-088202P.  
PR 05-JUN-1998; 98US-088212P.  
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PR 09-JUN-1998; 98US-088655P.  
PR 10-JUN-1998; 98US-088734P.  
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PR 11-JUN-1998; 98US-088876P.  
PR 12-JUN-1998; 98US-089105P.  
PR 16-JUN-1998; 98US-089440P.  
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PR 17-JUN-1998; 98US-089653P.  
PR 18-JUN-1998; 98US-089801P.  
PR 18-JUN-1998; 98US-089907P.  
PR 18-JUN-1998; 98US-089908P.  
PR 28-AUG-2001; 2001US-0941992.

(GETH ) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
XX Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;  
PI Grimaldi JC, Gurvey AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;  
PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;  
PI Zhang Z;  
XX

R WPI; 2003-288106/28.  
R N-PSDB; ABX90247.  
T New transmembrane polypeptides and nucleic acids encoding the  
T polypeptides, useful in gene therapy, in chromosome identification, as  
T chromosome markers, or in generating probes -  
X S Claim 12; Fig 157; 650pp; English.  
X X  
X C The invention discloses isolated PRO secreted/transmembrane polypeptides  
C comprising a sequence without signal peptide and the nucleic acid  
C encoding them. The polypeptides can be used to raise antibodies that  
C specifically bind to the PRO polypeptide, for linking a bioactive  
C molecule to a cell expressing a PRO protein and for modulating at least  
C one biological activity of a cell. The PRO polypeptides or  
C polynucleotides are also useful in gene therapy, in chromosome  
C identification, as chromosome markers, or in generating probes. The PRO  
C polypeptides are useful as molecular markers for protein  
C electrophoresis, and the isolated nucleic acids may be used for  
C recombinantly expressing those markers. Anti-PRO antibodies are useful  
C acids may also be used in tissue typing. Anti-PRO antibodies are useful  
C in diagnostic assays for PRO, and in affinity purification of PRO from  
C recombinant cell culture or natural sources. The sequences presented in  
C ABU0478-ABU0624 are the PRO polynucleotides of the invention.  
C Note: The sequence data for this patent is also available in electronic  
C format from USPTO at [seqdata.uspto.gov/sequence.html](http://seqdata.uspto.gov/sequence.html).  
X X  
X Q Sequence 653 AA;

Query Match 100.0%; Score 653; DB 24; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
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Qy 421 VYTCMTVWAGNSAYLVNSTALNYSNYSFFTTVTETTESPDTTRKYKVPVPTTS 480  
Db 421 VYTCMTVWAGNSAYLVNSTALNYSNYSFFTTVTETTESPDTTRKYKVPVPTTS 480  
Qy 481 TGYQPAYTTSTTVLIQTTVPKQVAVPATDTTDKQVSLDEVMKTKIIGCFVAVTLA 540  
Db 481 TGYQPAYTTSTTVLIQTTVPKQVAVPATDTTDKQVSLDEVMKTKIIGCFVAVTLA 540  
Qy 541 AAMLVYFKLRKHQRSTVTAARTVELIQVDEDI PAATSAATAAPSGVSGAVWLPT 600  
Db 541 AAMLVYFKLRKHQRSTVTAARTVELIQVDEDI PAATSAATAAPSGVSGAVWLPT 600

Qy 601 IHDHINTYKPAHGAHWNTSLGNSLHPTVTITISPIYIIQTHTKKVQSTQI 653  
Db 601 IHDHINTYKPAHGAHWNTSLGNSLHPTVTITISPIYIIQTHTKKVQSTQI 653

RESULT 13  
ID ABUS8032 standard; Protein; 653 AA.  
XX  
AC ABUS8032;  
DT 14-APR-2003 (first entry)  
XX  
DE Human PRO polypeptide #64.  
XX  
KW Human; PRO; cytostatic; tumour; cancer; breast; lung; stomach; liver;  
KW horse; cow; dog; cat; sheep; pig; goat; rabbit; ADPFT;  
KW antibody-dependent enzyme mediated prodrug therapy.  
XX  
OS Homo sapiens.  
XX  
PN US2003027163-A1.  
XX  
PD 06-FEB-2003.  
XX  
PF 15-NOV-2001; 2001US-0997656.  
XX  
PR 05-NOV-1997; 97WO-US200069.  
PR 16-SEP-1998; 98WO-US19330.  
PR 17-SEP-1998; 98WO-US19437.  
PR 07-OCT-1998; 98WO-US21141.  
PR 01-DEC-1998; 98WO-US25108.  
PR 05-JAN-1999; 99WO-US00106.  
PR 08-MAR-1999; 99WO-US05028.  
PR 02-JUN-1999; 99WO-US12252.  
PR 15-SEP-1999; 99WO-US21090.  
PR 15-SEP-1999; 99WO-US21547.  
PR 30-NOV-1999; 99WO-US28313.  
PR 01-DEC-1999; 99WO-US28301.  
PR 16-DEC-1999; 99WO-US28634.  
PR 20-DEC-1999; 99WO-US30095.  
PR 05-JAN-2000; 2000WO-US00219.  
PR 06-JAN-2000; 2000WO-US00376.  
PR 11-FEB-2000; 2000WO-US03565.  
PR 18-FEB-2000; 2000WO-US04341.  
PR 22-FEB-2000; 2000WO-US04414.  
PR 24-FEB-2000; 2000WO-US04514.  
PR 02-MAR-2000; 2000WO-US05841.  
PR 10-MAR-2000; 2000WO-US06319.  
PR 15-MAR-2000; 2000WO-US06884.  
PR 20-MAR-2000; 2000WO-US07377.  
PR 30-MAR-2000; 2000WO-US08439.  
PR 15-MAY-2000; 2000WO-US13358.  
PR 17-MAY-2000; 2000WO-US13705.  
PR 22-MAY-2000; 2000WO-US14042.  
PR 30-MAY-2000; 2000WO-US14941.  
PR 02-JUN-2000; 2000WO-US15264.  
PR 28-JUL-2000; 2000WO-US20710.  
PR 11-AUG-2000; 2000WO-US22031.  
PR 23-AUG-2000; 2000WO-US23522.  
PR 24-AUG-2000; 2000WO-US23328.  
PR 08-NOV-2000; 2000WO-US30952.  
PR 01-DEC-2000; 2000WO-US32678.  
PR 28-FEB-2001; 2001WO-US06520.  
PR 01-JUN-2001; 2001WO-US17800.  
PR 20-JUN-2001; 2001WO-US19692.  
PR 29-JUN-2001; 2001WO-US21066.  
PR 09-JUL-2001; 2001WO-US21735.  
PR 16-JUN-1997; 97US-04978P.  
PR 17-OCT-1997; 97US-062250P.  
PR 12-NOV-1997; 97US-065186P.

R 13-NOV-1997; 98US-065311P.  
 R 24-NOV-1997; 98US-066770P.  
 R 25-FEB-1998; 98US-075945P.  
 R 20-MAR-1998; 98US-078910P.  
 R 28-APR-1998; 98US-083322P.  
 R 07-MAY-1998; 98US-084600P.  
 R 28-MAY-1998; 98US-087106P.  
 R 02-JUN-1998; 98US-087607P.  
 R 02-JUN-1998; 98US-087609P.  
 R 02-JUN-1998; 98US-087759P.  
 R 03-JUN-1998; 98US-088021P.  
 R 04-JUN-1998; 98US-088025P.  
 R 04-JUN-1998; 98US-088026P.  
 R 04-JUN-1998; 98US-088028P.  
 R 04-JUN-1998; 98US-088029P.  
 R 04-JUN-1998; 98US-088030P.  
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 R 04-JUN-1998; 98US-088326P.  
 R 05-JUN-1998; 98US-088167P.  
 R 05-JUN-1998; 98US-088302P.  
 R 05-JUN-1998; 98US-088212P.  
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 R 09-JUN-1998; 98US-088655P.  
 R 10-JUN-1998; 98US-088734P.  
 R 10-JUN-1998; 98US-088738P.  
 R 10-JUN-1998; 98US-088742P.  
 R 10-JUN-1998; 98US-088810P.  
 R 10-JUN-1998; 98US-088824P.  
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 R 11-JUN-1998; 98US-088858P.  
 R 11-JUN-1998; 98US-088861P.  
 R 11-JUN-1998; 98US-088876P.  
 R 12-JUN-1998; 98US-089105P.  
 R 16-JUN-1998; 98US-089440P.  
 R 16-JUN-1998; 98US-089512P.  
 R 17-JUN-1998; 98US-089514P.  
 R 17-JUN-1998; 98US-089532P.  
 R 17-JUN-1998; 98US-089538P.  
 R 17-JUN-1998; 98US-089598P.  
 R 17-JUN-1998; 98US-089599P.  
 R 17-JUN-1998; 98US-089600P.  
 R 17-JUN-1998; 98US-089653P.  
 R 18-JUN-1998; 98US-089801P.  
 R 18-JUN-1998; 98US-089907P.  
 R 18-JUN-1998; 98US-089908P.  
 R 19-JUN-1998; 98US-089947P.  
 R 19-JUN-1998; 98US-089948P.  
 R 19-JUN-1998; 98US-089952P.  
 R 22-JUN-1998; 98US-090246P.  
 R 22-JUN-1998; 98US-090252P.  
 R 22-JUN-1998; 98US-090254P.  
 R 23-JUN-1998; 98US-090349P.  
 R 23-JUN-1998; 98US-090355P.  
 R 24-JUN-1998; 98US-090429P.  
 R 24-JUN-1998; 98US-090431P.  
 R 24-JUN-1998; 98US-090435P.  
 R 24-JUN-1998; 98US-090444P.  
 R 24-JUN-1998; 98US-090445P.  
 R 24-JUN-1998; 98US-090472P.  
 R 24-JUN-1998; 98US-090535P.  
 R 24-JUN-1998; 98US-090540P.  
 R 24-JUN-1998; 98US-090542P.  
 R 24-JUN-1998; 98US-090557P.  
 R 25-JUN-1998; 98US-090676P.  
 R 25-JUN-1998; 98US-090678P.  
 R 25-JUN-1998; 98US-090690P.  
 R 25-JUN-1998; 98US-090694P.  
 R 25-JUN-1998; 98US-090696P.  
 R 25-JUN-1998; 98US-090698P.  
 R 26-JUN-1998; 98US-090862P.  
 R 26-JUN-1998; 98US-090863P.  
 R 01-JUL-1998; 98US-091360P.

PR 01-JUL-1998; 98US-091544P.  
 PR 02-JUL-1998; 98US-091478P.  
 PR 02-JUL-1998; 98US-091519P.  
 PR 02-JUL-1998; 98US-091626P.  
 PR 02-JUL-1998; 98US-091628P.  
 PR 02-JUL-1998; 98US-091633P.  
 PR 02-JUL-1998; 98US-091646P.  
 PR 02-JUL-1998; 98US-091673P.  
 PR 02-JUL-1998; 98US-091978P.  
 PR 07-JUL-1998; 98US-091982P.  
 PR 09-JUL-1998; 98US-092182P.  
 PR 10-JUL-1998; 98US-092472P.  
 PR 20-JUL-1998; 98US-093339P.  
 PR 30-JUL-1998; 98US-094651P.  
 PR 04-AUG-1998; 98US-095282P.  
 PR 04-AUG-1998; 98US-095285P.  
 PR 04-AUG-1998; 98US-095301P.  
 PR 04-AUG-1998; 98US-095302P.  
 PR 04-AUG-1998; 98US-095318P.  
 PR 04-AUG-1998; 98US-095321P.  
 PR 04-AUG-1998; 98US-095325P.  
 PR 10-AUG-1998; 98US-095316P.  
 PR 10-AUG-1998; 98US-095329P.  
 PR 10-AUG-1998; 98US-096012P.  
 PR 11-AUG-1998; 98US-096143P.  
 PR 11-AUG-1998; 98US-096146P.  
 PR 12-AUG-1998; 98US-096329P.  
 PR 17-AUG-1998; 98US-096757P.  
 PR 17-AUG-1998; 98US-096766P.  
 PR 17-AUG-1998; 98US-096768P.  
 PR 17-AUG-1998; 98US-096773P.  
 PR 17-AUG-1998; 98US-096791P.  
 PR 17-AUG-1998; 98US-096867P.  
 PR 17-AUG-1998; 98US-096891P.  
 PR 17-AUG-1998; 98US-096894P.  
 PR 17-AUG-1998; 98US-096895P.  
 PR 17-AUG-1998; 98US-096897P.  
 PR 18-AUG-1998; 98US-096949P.  
 PR 18-AUG-1998; 98US-096950P.  
 PR 18-AUG-1998; 98US-096959P.  
 PR 18-AUG-1998; 98US-096960P.  
 PR 18-AUG-1998; 98US-097022P.  
 PR 19-AUG-1998; 98US-097141P.  
 PR 20-AUG-1998; 98US-097218P.  
 PR 24-AUG-1998; 98US-097661P.  
 PR 26-AUG-1998; 98US-097952P.  
 PR 26-AUG-1998; 98US-097954P.  
 PR 26-AUG-1998; 98US-097955P.  
 PR 26-AUG-1998; 98US-097971P.  
 PR 26-AUG-1998; 98US-097974P.  
 PR 26-AUG-1998; 98US-097978P.  
 PR 26-AUG-1998; 98US-097979P.  
 PR 26-AUG-1998; 98US-097986P.  
 PR 26-AUG-1998; 98US-098014P.  
 PR 31-AUG-1998; 98US-098525P.  
 PR 16-SEP-1998; 98US-100634P.  
 PR 17-SEP-1998; 98US-100858P.  
 PR 22-DEC-1998; 98US-113296P.  
 PR 12-MAR-1999; 98US-123957P.  
 PR 23-JUN-1999; 98US-141037P.  
 PR 07-JUL-1999; 98US-143048P.

Query Match 100.0%; Score 653; DB 24; Length 653;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 M K L L Q V T V H H T W N A I L P F V Y L T A Q W I L C A A T A A A S A G P Q N C P S V C S C N O F S K V 60  
 Db 1 M K L L Q V T V H H T W N A I L P F V Y L T A Q W I L C A A T A A A S A G P Q N C P S V C S C N O F S K V 60  
 Qy 61 C T R R G L S E V P Q G I P S N T R Y L N L M E N N I Q M I Q A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120  
 Db 61 C T R R G L S E V P Q G I P S N T R Y L N L M E N N I Q M I Q A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120

121 GLASLTLEFDNLWLTIPSGAFYYLSKRELWLRNPNIESIPSAFNRPVSLMELDLGE 180  
121 GLASLTLEFDNLWLTIPSGAFYYLSKRELWLRNPNIESIPSAFNRPVSLMELDLGE 180  
181 LKLEYISEGAFGLFNKLVNLCMKNIKMPNLTPLVGLSELEMSGNHPPFIRGSHG 240  
181 LKLEYISEGAFGLFNKLVNLCMKNIKMPNLTPLVGLSELEMSGNHPPFIRGSHG 240  
241 LSSLLKLWVNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRYLVELHLHN 300  
241 LSSLLKLWVNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRYLVELHLHN 300  
301 PWNCDILWLAWLREYIIPNTECCGRCHAPNMRGRVLYVEDQASFOCSAPFIMDAPR 360  
301 PWNCDILWLAWLREYIIPNTECCGRCHAPNMRGRVLYVEDQASFOCSAPFIMDAPR 360  
361 DLNISSEGMAELKRTPPMSVKKLLPNGTVLASHSRHPRIISVLDGTLNFSHVLLSDTG 420  
361 DLNISSEGMAELKRTPPMSVKKLLPNGTVLASHSRHPRIISVLDGTLNFSHVLLSDTG 420  
421 VYTCWTVNAGNSNAYLNVSTABLNTSNYSFPTTVTVEITTEISPEDTRKYPVPTS 480  
421 VYTCWTVNAGNSNAYLNVSTABLNTSNYSFPTTVTVEITTEISPEDTRKYPVPTS 480  
481 TGYOPATTTSTVLITQIRVPKQVAVPATDTTDMQTSLSDEVNKTTKIIIGCFVAVTLIA 540  
481 TGYOPATTTSTVLITQIRVPKQVAVPATDTTDMQTSLSDEVNKTTKIIIGCFVAVTLIA 540  
541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVLPT 600  
541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVLPT 600  
601 IHDHINTYKPAKGAHTENSLSLHPVTWTTISBPYIIQHTTKDKVQETQI 653  
601 IHDHINTYKPAKGAHTENSLSLHPVTWTTISBPYIIQHTTKDKVQETQI 653

RESULT 14  
ABUS8963  
ID ABUS8963 standard; Protein; 653 AA.  
IC ABUS8963;  
YT 16-APR-2003 (first entry)  
DE Human secreted/transmembrane protein, #93.  
GW Human; PRO; secreted; transmembrane; signal peptide;  
GW pharmaceutical; diagnostic; biosensor; bioreactor; tumour; therapeutic;  
GW colon cancer; lung cancer; breast cancer; cancer; gene therapy.  
DS Homo sapiens.  
KN US2002142961-A1.  
CX 03-OCT-2002.  
PF 19-NOV-2001; 2001US-0989721.  
CX 05-NOV-1997; 97WO-US20069.  
PR 17-SEP-1998; 98WO-US19437.  
PR 07-OCT-1998; 98WO-US21141.  
PR 01-DEC-1998; 98WO-US25108.  
PR 05-JAN-1999; 99WO-US00106.  
PR 08-MAR-1999; 99WO-US05028.  
PR 02-JUN-1999; 99WO-US12252.  
PR 15-SEP-1999; 99WO-US21090.  
PR 15-SEP-1999; 99WO-US21547.  
PR 30-NOV-1999; 99WO-US28313.  
PR 01-DEC-1999; 99WO-US28301.  
PR 01-DEC-1999; 99WO-US28634.  
PR 16-DEC-1999; 99WO-US30093.

20-DEC-1999; 99WO-US30911.  
05-JAN-2000; 2000WO-US00219.  
06-JAN-2000; 2000WO-US00376.  
11-FEB-2000; 2000WO-US03565.  
18-FEB-2000; 2000WO-US04341.  
22-FEB-2000; 2000WO-US04414.  
24-FEB-2000; 2000WO-US04914.  
24-FEB-2000; 2000WO-US05004.  
02-MAR-2000; 2000WO-US05841.  
10-MAR-2000; 2000WO-US06319.  
15-MAR-2000; 2000WO-US06884.  
20-MAR-2000; 2000WO-US07377.  
30-MAR-2000; 2000WO-US08439.  
15-MAY-2000; 2000WO-US13358.  
17-MAY-2000; 2000WO-US13705.  
22-MAY-2000; 2000WO-US14042.  
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02-JUN-2000; 2000WO-US15264.  
28-JUL-2000; 2000WO-US20710.  
11-AUG-2000; 2000WO-US22031.  
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01-DEC-2000; 2000WO-US32478.  
28-FEB-2001; 2001WO-US06520.  
01-JUN-2001; 2001WO-US17800.  
20-JUN-2001; 2001WO-US19692.  
29-JUN-2001; 2001WO-US21056.  
09-JUL-2001; 2001WO-US21735.  
16-JUN-1997; 97US-049787P.  
17-OCT-1997; 97US-062250P.  
12-NOV-1997; 97US-065311P.  
13-NOV-1997; 97US-066770P.  
24-NOV-1997; 97US-075945P.  
25-FEB-1998; 98US-078910P.  
20-MAR-1998; 98US-083322P.  
28-APR-1998; 98US-084600P.  
07-MAY-1998; 98US-087106P.  
28-MAY-1998; 98US-087607P.  
02-JUN-1998; 98US-087609P.  
02-JUN-1998; 98US-087759P.  
03-JUN-1998; 98US-087827P.  
04-JUN-1998; 98US-088021P.  
04-JUN-1998; 98US-088025P.  
04-JUN-1998; 98US-088026P.  
04-JUN-1998; 98US-088028P.  
04-JUN-1998; 98US-088029P.  
04-JUN-1998; 98US-088030P.  
04-JUN-1998; 98US-088033P.  
04-JUN-1998; 98US-088326P.  
05-JUN-1998; 98US-088167P.  
05-JUN-1998; 98US-088202P.  
05-JUN-1998; 98US-088212P.  
05-JUN-1998; 98US-088217P.  
09-JUN-1998; 98US-088655P.  
10-JUN-1998; 98US-088734P.  
10-JUN-1998; 98US-088738P.  
10-JUN-1998; 98US-088742P.  
10-JUN-1998; 98US-088810P.  
10-JUN-1998; 98US-088824P.  
10-JUN-1998; 98US-088826P.  
11-JUN-1998; 98US-088858P.  
11-JUN-1998; 98US-088861P.  
11-JUN-1998; 98US-088876P.  
12-JUN-1998; 98US-089105P.  
16-JUN-1998; 98US-089440P.  
16-JUN-1998; 98US-089512P.  
16-JUN-1998; 98US-089514P.  
17-JUN-1998; 98US-089532P.  
17-JUN-1998; 98US-089538P.  
17-JUN-1998; 98US-089598P.  
17-JUN-1998; 98US-089599P.

17-JUN-1998; 98US-089600P.  
17-JUN-1998; 98US-089653P.  
18-JUN-1998; 98US-089601P.  
18-JUN-1998; 98US-089907P.  
18-JUN-1998; 98US-089908P.  
28-AUG-2001; 2001US-0941992.  
(GETH ) GENENTECH INC.  
Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL,  
Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ,  
Grimaldi JC, Gurney AL, Kijavini IJ, Napier MA, Pan J, Paoni NF,  
Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI,  
Zhang Z;  
WPI, 2003-155950/15.  
New secreted and transmembrane PRO polypeptides (e.g. PRO183, PRO184,  
PRO361 or PRO846) useful as targets for therapeutic intervention in  
cancers (e.g. lung or breast cancers), or for diagnosing these cancers  
-  
Claim 12; Fig 157; 647pp; English.  
The invention discloses isolated PRO secreted/transmembrane polypeptides  
comprising a sequence without signal peptide and the nucleic acid  
encoding them. The polypeptides can be used to raise antibodies that  
specifically bind to the PRO polypeptide, for linking a bioactive  
molecule to a cell expressing a PRO protein and for modulating at least  
one biological activity of a cell. The PRO polypeptides or  
polynucleotides are also useful as pharmaceuticals, diagnostics,  
biomarkers or bioreactors, for detecting or treating e.g. tumours in  
mammals, e.g. humans, dogs, cats, cattle, horses, sheep, goats or  
rabbits as targets for therapeutic intervention in certain cancers (e.g.  
colon, lung or breast cancers) and diagnostic determination of the  
presence of these cancers. The PRO polypeptides are also useful as  
molecular weight markers or for chromosome identification. The PRO genes  
are useful as hybridisation probes or for screening libraries of human  
cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene  
therapy, particularly for replacing a defective gene. The sequences  
presented in ABUS9900-ABUS9046 are the PRO polypeptides of the invention.  
Sequence 653 AA;  
Query Match 100.0%; Score 653; DB 24; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
y 1 MKLLQVTVVHHHTWNAILLPFVYLAQVWILCAALAAASAGPQKPCSCSNQFSKV 60  
b 1 MKLLQVTVVHHHTWNAILLPFVYLAQVWILCAALAAASAGPQKPCSCSNQFSKV 60  
y 61 CTRRGLSEVPQGPSNRYNLNMENNIQMIQADTPRHLLHLEVLQLRGNSRQIEVGAFN 120  
b 61 CTRRGLSEVPQGPSNRYNLNMENNIQMIQADTPRHLLHLEVLQLRGNSRQIEVGAFN 120  
y 121 GLASNTLSEFNWLTIVISGAFYLSKRLRLWLNPNPIESIPSVAPNRPVSLMELDLGE 180  
b 121 GLASNTLSEFNWLTIVISGAFYLSKRLRLWLNPNPIESIPSVAPNRPVSLMELDLGE 180  
y 181 LKLEYISBGAEGFLNLYLGMCNKIMPNLTPLVGLSELEMSGNHFPPIRPGSPHG 240  
b 181 LKLEYISBGAEGFLNLYLGMCNKIMPNLTPLVGLSELEMSGNHFPPIRPGSPHG 240  
y 241 LSSLKLLWNSQVSLIERNADGLASVLELNAHNLSLPHDLFTPLRYLVELLHHN 300  
b 241 LSSLKLLWNSQVSLIERNADGLASVLELNAHNLSLPHDLFTPLRYLVELLHHN 300  
y 301 PNCDCDILWLAWLREYIPTNSTCCGRCHAPMWRGRLVVEVDQASFCQSPAPFTMDAPR 360  
b 301 PNCDCDILWLAWLREYIPTNSTCCGRCHAPMWRGRLVVEVDQASFCQSPAPFTMDAPR 360  
y 361 DLNISGRMAELKCRTPPMSSVVKLLPNGTVLSHARHPRIVLNDGTLNFSHVLLSDTG 420

Db 361 DLNISGRMAELKCRTPPMSSVVKLLPNGTVLSHARHPRIVLNDGTLNFSHVLLSDTG 420  
Qy 421 VYTCWNTVAGNSNASAYLVNSTAEALNTSNYSPTTIVTETTESPEDTTRKYPVPTTS 480  
Db 421 VYTCWNTVAGNSNASAYLVNSTAEALNTSNYSPTTIVTETTESPEDTTRKYPVPTTS 480  
Qy 481 TGYQPAYTTSVTLVLIQTRVPKQVAVPATDTTDRQTSLSDEVMKTKIILGCFVAVTLLA 540  
Db 481 TGYQPAYTTSVTLVLIQTRVPKQVAVPATDTTDRQTSLSDEVMKTKIILGCFVAVTLLA 540  
Qy 541 RAMLIVFVKLRKQORSTVTAARTVEIIQVDEIIPAATSAATAAAPSQVSGEGAVVLP 600  
Db 541 RAMLIVFVKLRKQORSTVTAARTVEIIQVDEIIPAATSAATAAAPSQVSGEGAVVLP 600  
Qy 601 IHDHINYNTPKAGAHWTENSLGNSLHPVTVTISSEPYIIQTHTKQVQETQI 653  
Db 601 IHDHINYNTPKAGAHWTENSLGNSLHPVTVTISSEPYIIQTHTKQVQETQI 653  
RESULT 15  
ABU13923  
ID ABU13923 standard; Protein; 653 AA.  
XX AC ABU13923;  
XX DT 26-FEB-2003 (first entry)  
XX DE Human PRO1111 polypeptide.  
XX KW Human; PRO polypeptide; secreted protein; transmembrane protein;  
XX OS Homo sapiens.  
XX PN US2002103125-A1.  
XX PD 01-AUG-2002.  
XX PF 20-NOV-2003; 2001US-0989731.  
XX PR 05-NOV-1997; 97WO-US20069.  
PR 16-SEP-1998; 98WO-US19330.  
PR 17-SEP-1998; 98WO-US19437.  
PR 07-OCT-1998; 98WO-US21141.  
PR 01-DEC-1998; 98WO-US25108.  
PR 05-JAN-1999; 99WO-US00106.  
PR 08-MAR-1999; 99WO-US05028.  
PR 02-JUN-1999; 99WO-US12252.  
PR 15-SEP-1999; 99WO-US21090.  
PR 15-SEP-1999; 99WO-US21547.  
PR 30-NOV-1999; 99WO-US28313.  
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R 28-APR-1998; 98US-083322P.  
R 07-MAY-1998; 98US-084600P.  
R 28-MAY-1998; 98US-087106P.  
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R 10-JUN-1998; 98US-088734P.  
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R 17-JUN-1998; 98US-089598P.  
R 17-JUN-1998; 98US-089599P.  
R 17-JUN-1998; 98US-089600P.  
R 17-JUN-1998; 98US-089653P.  
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(GETH ) GENENTECH LTD.

Abkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
Perrara N, Fong S, Gerber H, Gerritsen WB, Goddard A, Godcowski PJ;  
Grimaldi JC, Gurney AL, Kiljavin IJ, Napier MA, Pan J, Paoni NF;  
Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;  
Zhang Z;  
WPI; 2003-102117/09.  
N-PSDB; ABX64093.

PT Novel secreted and transmembrane polypeptide for modulating biological  
PT activity of cell expressing the polypeptide, identifying agonists or  
XX antagonists of polypeptide, and as molecular weight markers  
PS Claim 12; Fig 157; 649pp; English.  
XX  
CC The present invention relates to the isolation of novel human PRO  
CC polypeptides, and the polynucleotide sequences encoding them. The  
CC PRO polypeptides are secreted and transmembrane proteins. The PRO  
CC polypeptides are useful for detecting other PRO polypeptides, for  
CC linking bioactive molecules to cells expressing PRO polypeptides,  
CC for modulating biological activities of cells expressing PRO  
CC polypeptides, and for identifying agonists or antagonists.  
CC The polynucleotide sequences encoding PRO polypeptides are useful as  
CC hybridisation probes, in chromosome and gene mapping, in the generation  
CC of antisense RNA and DNA, in the preparation of PRO polypeptides, for  
CC generating transgenic animals or knockout animals, to construct  
CC hybridisation probes for mapping the gene which encodes the PRO  
CC polypeptide, and for the genetic analysis of individuals with genetic  
CC disorders, in gene therapy, for chromosome identification, as  
CC chromosome markers, and for generating probes for PCR, Northern  
CC analysis, Southern analysis and Western analysis. ABU13860-ABU14006  
CC represent the human PRO polypeptides of the invention.  
CC Note: The sequence data for this patent was obtained in electronic  
CC format directly from the USPTO web site at  
CC seqdata.uspto.gov/psipdsIDentry.html.  
XX  
SQ Sequence 653 AA;

Query Match 100.0%; Score 653; DB 24; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 M K L L M Q V T V H H T W N A I L L P F V Y L T A Q W I L C A A I A A A A A G A G P Q C P S V C S N Q F S K V 60  
DB 1 M K L L M Q V T V H H T W N A I L L P F V Y L T A Q W I L C A A I A A A A A G A G P Q C P S V C S N Q F S K V 60  
QY 61 C T R G L S E V P Q G I P S N T R Y L N L M E N N I O M I Q A D T F R H L H L E V L Q L G N S T R Q I E V G A F N 120  
DB 61 C T R G L S E V P Q G I P S N T R Y L N L M E N N I O M I Q A D T F R H L H L E V L Q L G N S T R Q I E V G A F N 120  
QY 121 G L A S L N T L E L F D N W L T V I P S G A P E Y L S K L R L W L A N N P T E S I P S Y A F N R V P S L M R L D L G E 180  
DB 121 G L A S L N T L E L F D N W L T V I P S G A P E Y L S K L R L W L A N N P T E S I P S Y A F N R V P S L M R L D L G E 180  
QY 181 L K L E Y I S E G A F E L N L A Y L N I G M C N I K D M P N I T P L V G L E L M S G N H F P E I R P G S F H G 240  
DB 181 L K L E Y I S E G A F E L N L A Y L N I G M C N I K D M P N I T P L V G L E L M S G N H F P E I R P G S F H G 240  
QY 241 L S S L K L W N N S Q V S L I E R N A F D G L A S L V E L N A H N N L S S L P H D L F T P L R Y L V L H L H N 300  
DB 241 L S S L K L W N N S Q V S L I E R N A F D G L A S L V E L N A H N N L S S L P H D L F T P L R Y L V L H L H N 300  
QY 301 P W N C D C D I L W A W L R E Y I P T N S T C C G R C H A P M H R G R Y L V E V D Q A S F Q C S A P F I M D A P R 360  
DB 301 P W N C D C D I L W A W L R E Y I P T N S T C C G R C H A P M H R G R Y L V E V D Q A S F Q C S A P F I M D A P R 360  
QY 361 D L N I S E G R M A E L K R T P P M S S V K W L L P N G T V L S H A S R H P R I S V L M D G T L N F S H V L L S D T G 420  
DB 361 D L N I S E G R M A E L K R T P P M S S V K W L L P N G T V L S H A S R H P R I S V L M D G T L N F S H V L L S D T G 420  
QY 421 V Y T C M V T N V A G N S N A S A Y L N V S T A E L N T S N Y S F F T V T V T E T E I S P E D T T R K Y K P V P T T S 480  
DB 421 V Y T C M V T N V A G N S N A S A Y L N V S T A E L N T S N Y S F F T V T V T E T E I S P E D T T R K Y K P V P T T S 480  
QY 481 T G V O P A Y T T S T V L I O T T R V P K Q V A P A T T D T T D R N Q T S L D E V M K T T K I I I G C F V A V I L L A 540  
DB 481 T G V O P A Y T T S T V L I O T T R V P K Q V A P A T T D T T D R N Q T S L D E V M K T T K I I I G C F V A V I L L A 540  
QY 541 A A M L I V F Y K L R K H Q R S T V T A A R T V E I I Q V D E D T P A A T S A A A T A A P S V G S G E G A V L P T 600  
DB 541 A A M L I V F Y K L R K H Q R S T V T A A R T V E I I Q V D E D T P A A T S A A A T A A P S V G S G E G A V L P T 600

601 IHDHINYTYKPAHGAHTWENSLNSLHPTVTITISEPVIIQHTKDKVQETQI 653  
|||||  
601 IHDHINYTYKPAHGAHTWENSLNSLHPTVTITISEPVIIQHTKDKVQETQI 653  
|||  
RESULT 16  
JUI0878  
( ) ABUI0878 standard; Protein; 653 AA.  
( ) ABUI0878;  
( ) 04-FEB-2003 (first entry)  
( ) Human PRO polypeptide #64.  
( ) Human; PRO; secreted polypeptide; transmembrane polypeptide;  
( ) toxin; radiolabel; cell death; gene mapping; chromosome mapping;  
( ) protein electrophoresis; Genetic disorder; immunosuppressive; Cytostatic;  
( ) antibacterial.  
( ) Homo sapiens.  
( ) US2002123463-A1.  
( ) 05-SEP-2002.  
( ) 19-NOV-2001; 2001US-0989732.  
( ) 05-NOV-1997; 97WO-US200069.  
( ) 16-SEP-1998; 98WO-US19330.  
( ) 17-SEP-1998; 98WO-US19437.  
( ) 07-OCT-1998; 98WO-US21141.  
( ) 01-DEC-1998; 98WO-US21508.  
( ) 05-JAN-1999; 99WO-US00106.  
( ) 08-MAR-1999; 99WO-US05028.  
( ) 02-JUN-1999; 99WO-US12252.  
( ) 15-SEP-1999; 99WO-US21090.  
( ) 15-SEP-1999; 99WO-US21547.  
( ) 30-NOV-1999; 99WO-US28313.  
( ) 01-DEC-1999; 99WO-US28301.  
( ) 01-DEC-1999; 99WO-US28634.  
( ) 16-DEC-1999; 99WO-US30095.  
( ) 20-DEC-1999; 99WO-US30911.  
( ) 06-JAN-2000; 2000WO-US00219.  
( ) 08-JAN-2000; 2000WO-US00376.  
( ) 11-FEB-2000; 2000WO-US03565.  
( ) 18-FEB-2000; 2000WO-US04341.  
( ) 22-FEB-2000; 2000WO-US04414.  
( ) 24-FEB-2000; 2000WO-US04914.  
( ) 02-MAR-2000; 2000WO-US05004.  
( ) 10-MAR-2000; 2000WO-US05981.  
( ) 15-MAR-2000; 2000WO-US06319.  
( ) 20-MAR-2000; 2000WO-US06884.  
( ) 30-MAR-2000; 2000WO-US07377.  
( ) 30-MAR-2000; 2000WO-US08439.  
( ) 15-MAY-2000; 2000WO-US13358.  
( ) 17-MAY-2000; 2000WO-US13705.  
( ) 22-MAY-2000; 2000WO-US14042.  
( ) 02-JUN-2000; 2000WO-US14941.  
( ) 30-JUN-2000; 2000WO-US15264.  
( ) 28-JUL-2000; 2000WO-US20710.  
( ) 11-AUG-2000; 2000WO-US22031.  
( ) 23-AUG-2000; 2000WO-US23522.  
( ) 24-AUG-2000; 2000WO-US23328.  
( ) 08-NOV-2000; 2000WO-US30952.  
( ) 01-DEC-2000; 2000WO-US32678.  
( ) 28-FEB-2001; 2001WO-US06520.  
( ) 01-JUN-2001; 2001WO-US17800.  
( ) 20-JUN-2001; 2001WO-US19692.  
( ) 29-JUN-2001; 2001WO-US21066.  
( ) 09-JUL-2001; 2001WO-US21735.  
( ) 16-JUN-1997; 97US-049787P.  
( ) 17-OCT-1997; 97US-062250P.

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PR 24-NOV-1997; 97US-066770P.  
PR 25-FEB-1998; 98US-075945P.  
PR 20-MAR-1998; 98US-078910P.  
PR 28-APR-1998; 98US-083322P.  
PR 07-MAY-1998; 98US-084600P.  
PR 28-MAY-1998; 98US-087106P.  
PR 02-JUN-1998; 98US-087607P.  
PR 02-JUN-1998; 98US-087609P.  
PR 02-JUN-1998; 98US-087759P.  
PR 03-JUN-1998; 98US-087827P.  
PR 04-JUN-1998; 98US-088021P.  
PR 04-JUN-1998; 98US-088025P.  
PR 04-JUN-1998; 98US-088026P.  
PR 04-JUN-1998; 98US-088028P.  
PR 04-JUN-1998; 98US-088029P.  
PR 04-JUN-1998; 98US-088030P.  
PR 04-JUN-1998; 98US-088033P.  
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PR 11-JUN-1998; 98US-088876P.  
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(GETH ) GENENTECH INC.

Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;  
Ferrara N, Fong S, Gerber H, Geritsen ME, Goddard A, Godowski PJ;  
Grimaldi JC, Gurney AL, Kljavin IJ, Napier MA, Pan J, Paoni NF;  
Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;  
Zhang Z;

WPI; 2003-066810/06.  
N-PSDE; ABX17057.

Novel secreted and transmembrane polypeptide for modulating biological  
activity of cell expressing the polypeptide, identifying agonists or  
antagonists of polypeptide, and as molecular weight markers -

Claim 12; Fig 157; 655pp; English.

The invention relates to a secreted and transmembrane polypeptide, termed  
PRO polypeptide, and the polynucleotide encoding it. The polypeptide is  
useful for detecting PRO polypeptides and for linking a bioactive  
molecule to a cell expressing the above polypeptides, where the bioactive  
molecule is a toxin, radiolabel or an antibody. The bioactive material  
causes the death of the cell. The polypeptide is useful for identifying  
agonists or antagonists of the PRO polypeptide, for preparing variants of



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R 08-NOV-2000; 2000US-0246524.  
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R 08-NOV-2000; 2000US-0246526.  
R 08-NOV-2000; 2000US-0246527.  
R 08-NOV-2000; 2000US-0246528.  
R 08-NOV-2000; 2000US-0246532.  
R 08-NOV-2000; 2000US-0246609.  
R 08-NOV-2000; 2000US-0246610.  
R 08-NOV-2000; 2000US-0246611.  
R 08-NOV-2000; 2000US-0246613.  
R 17-NOV-2000; 2000US-0249207.  
R 17-NOV-2000; 2000US-0249208.  
R 17-NOV-2000; 2000US-0249209.  
R 17-NOV-2000; 2000US-0249210.  
R 17-NOV-2000; 2000US-0249211.  
R 17-NOV-2000; 2000US-0249212.  
R 17-NOV-2000; 2000US-0249213.  
R 17-NOV-2000; 2000US-0249214.  
R 17-NOV-2000; 2000US-0249215.  
R 17-NOV-2000; 2000US-0249216.  
R 17-NOV-2000; 2000US-0249217.  
R 17-NOV-2000; 2000US-0249218.  
R 17-NOV-2000; 2000US-0249244.  
R 17-NOV-2000; 2000US-0249245.  
R 17-NOV-2000; 2000US-0249246.  
R 17-NOV-2000; 2000US-0249265.  
R 17-NOV-2000; 2000US-0249265.  
R 17-NOV-2000; 2000US-0249297.  
R 17-NOV-2000; 2000US-0249299.  
R 17-NOV-2000; 2000US-0249300.  
R 01-DEC-2000; 2000US-0250160.  
R 01-DEC-2000; 2000US-0250391.  
R 05-DEC-2000; 2000US-0251030.  
R 05-DEC-2000; 2000US-0251988.  
R 05-DEC-2000; 2000US-0256719.  
R 06-DEC-2000; 2000US-0251479.  
R 08-DEC-2000; 2000US-0251856.

PR 08-DEC-2000; 2000US-0251868.  
PR 08-DEC-2000; 2000US-0251869.  
PR 08-DEC-2000; 2000US-0251869.  
PR 08-DEC-2000; 2000US-0251990.  
PR 11-DEC-2000; 2000US-0254097.  
PR 05-JAN-2001; 2001US-0259678.  
PA (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Rosen CA, Barash SC, Ruben SM;  
FI WPI; 2001-457725/49.  
XX N-PSDB; AAS28823.  
DR  
XX  
XX  
PT Isolated novel immunoglobulin polypeptide for monitoring the presence  
PT and progression of diseases and for diagnosis -  
XX Claim 11; SEQ ID No 180; 551pp; English.  
XX  
XX Sequences AAU17977-AAU18087 represent immunoglobulin polypeptides of the  
XX invention. The polypeptides and their associated polynucleotides can be  
XX used to diagnose a pathological condition or a susceptibility to a  
XX pathological condition in a subject by determining the presence or  
XX absence of a mutation in a DNA sequence or determining the presence or  
XX amount of expression of the protein. Alternatively the identification of  
XX a binding partner to a sequence allows determination of changes in  
XX protein activity. The sequences can be used as research tools for  
XX receptors or other signal transduction pathway proteins that interact  
XX with the polypeptides of the invention and can be used to treat, prevent  
XX or diagnose various types of disorders such as neurological disorders,  
XX cardiovascular disorders, gastrointestinal disorders, reproductive  
XX disorders, immune system disorders, renal disorders, muscular disorders,  
XX pulmonary disorders, proliferative disorders and cancer.  
XX Note: The sequence data for this patent did not form part of the printed  
XX specification, but was obtained in electronic format directly from WIPO  
XX at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
XX Sequence 606 AA;  
SQ

Query Match 92.8%; Score 606; DB 22; Length 606;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 606; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 48 SVCSNQSFKVYVTRGLSEVPGQIPSNTRYLNAMNNIOMIQADTFRLHLEVLQLG 107  
DB 1 SVCSNQSFKVYVTRGLSEVPGQIPSNTRYLNAMNNIOMIQADTFRLHLEVLQLG 60  
QY 108 RNSIRQIEVGAFNGLASINTLELFDNWLTVIPSGAFYLSKLELMLRNPIESIPSYAF 167  
DB 61 RNSIRQIEVGAFNGLASINTLELFDNWLTVIPSGAFYLSKLELMLRNPIESIPSYAF 120  
QY 168 NRVPSLMRDLGELKLEYISEGAPEGLFNKLYNLGMCNKIDMPNLTPLVGLLEMSG 227  
DB 121 NRVPSLMRDLGELKLEYISEGAPEGLFNKLYNLGMCNKIDMPNLTPLVGLLEMSG 180  
QY 228 NHFPEIRPGSPFHGSSLSKLLWVNSQVSLIERNAFGLASLVELNLAHNLSLPHDLFT 287  
DB 181 NHFPEIRPGSPFHGSSLSKLLWVNSQVSLIERNAFGLASLVELNLAHNLSLPHDLFT 240  
QY 288 PLRYLVELHLHNPWNCDDILMLAWMLREYIPTNSGCCRCCHAPMHRGRYLVVDQAS 347  
DB 241 PLRYLVELHLHNPWNCDDILMLAWMLREYIPTNSGCCRCCHAPMHRGRYLVVDQAS 300  
QY 348 FQCSAPFTMDAPDLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRPRISVLNDG 407  
DB 301 FQCSAPFTMDAPDLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRPRISVLNDG 360  
QY 408 TLNPSHVLLSDTGYITCMTNVAAGNSNAYSALNVSTAEALNTSNYSPTTIVTTETTSISPE 467  
DB 361 TLNPSHVLLSDTGYITCMTNVAAGNSNAYSALNVSTAEALNTSNYSPTTIVTTETTSISPE 420  
QY 468 DTRKYPVPTTSGYQPAITTTSTTVLIQTRVPKQVAVPATDTTDMQTSLSVEMKTK 527





XX WPI: 2001-476161/51.  
DR N-PSDB; ABA06571.  
XX  
PT Isolated nucleic acid molecule encoding an inflammation-associated  
PT polypeptide is used in preventing, treating or ameliorating a medical  
PT condition  
XX  
PS Claim 11; SEQ ID NO: 657; 859pp + Sequence Listing; English.  
XX  
XX The present invention provides human cDNAs, proteins and related genomic  
XX DNAs. These can be used in the treatment of neural, immune system,  
XX muscular, reproductive, gastrointestinal, pulmonary, cardiovascular,  
XX renal and proliferative disorders and inflammation. The present sequence  
XX is a protein of the invention.  
XX  
XX Sequence 553 AA;  
XX  
Query Match 69.2%; Score 452; DB 22; Length 553;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 552; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 101 LEVLQGRNSRIQIEVGAFNGLASLNTLELFDNMLTVIPSGAFYLSKLRELMLRNPIE 160  
DB 1 LEVLQGRNSRIQIEVGAFNGLASLNTLELFDNMLTVIPSGAFYLSKLRELMLRNPIE 60  
QY 161 SPSYAFNRVPSLMDLDELKLELYISEGAFEGFLNKLNLGNCKMKNPTLPLVGL 220  
DB 61 SPSYAFNRVPSLMDLDELKLELYISEGAFEGFLNKLNLGNCKMKNPTLPLVGL 120  
QY 221 EELENSGNHFFPIRPGSPHGLSSLLKLVWMSQVSLIERNAFDGLASLVELNLAHNLS 280  
DB 121 EELENSGNHFFPIRPGSPHGLSSLLKLVWMSQVSLIERNAFDGLASLVELNLAHNLS 180  
QY 281 LPHDLFTPLRYLVELLHNPNCDCDILWLAWLREYIPNSTCCGCHAPMEMRGYLL 340  
DB 181 LPHDLFTPLRYLVELLHNPNCDCDILWLAWLREYIPNSTCCGCHAPMEMRGYLL 240  
QY 341 VEVDQASFOCSAPFINDAPRDNISEGRMAELKCRTPPMSSVQMLLPNGTVLSHRSRPR 400  
DB 241 VEVDQASFOCSAPFINDAPRDNISEGRMAELKCRTPPMSSVQMLLPNGTVLSHRSRPR 300  
QY 401 ISVNDGTLNPHRVLSDTGVTTCMTNVNAGNSNAYLNVSTAE LNSTSNYSFFTTVTE 460  
DB 301 ISVNDGTLNPHRVLSDTGVTTCMTNVNAGNSNAYLNVSTAE LNSTSNYSFFTTVTE 360  
QY 461 TTEISPEDTRKYPVPTTSTGQPAYTTSTVLQTRVPKQAVPATDTTDXMQTSLD 520  
DB 361 TTEISPEDTRKYPVPTTSTGQPAYTTSTVLQTRVPKQAVPATDTTDXMQTSLD 420  
QY 521 EVMKTKIIIGCFVAVTLAAAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDEIPAA 580  
DB 421 EVMKTKIIIGCFVAVTLAAAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDEIPAA 480  
QY 581 AAATAPSGVSGGAVVLPTIHDHINYNITKPAHGAHMTENSLSLPTVTITSEPVII 640  
DB 481 AAATAPSGVSGGAVVLPTIHDHINYNITKPAHGAHMTENSLSLPTVTITSEPVII 540  
QY 641 QHTTKDKVQETQI 653  
DB 541 QHTTKDKVQETQI 553  
RESULT 20  
ABP66936  
ID ABP66936 standard; Protein; 553 AA.  
XX  
AC ABP66936;  
XX  
DT 09-DEC-2002 (first entry)  
XX  
DE Human polypeptide SEQ ID NO 657.  
XX

XX Human; neutropic; neuroprotective; cytostatic; dermatological; virucide;  
KW immunosuppressive; anti-inflammatory; anti-HIV; antibacterial; vulnery;  
KW antiparkinsonian; antitickling; antianemic; antiarthritic; cancer;  
KW antirheumatic; hepatotropic; cerebroprotective; antinflammatory;  
KW antiallergic; antidiabetic; antitumor; anticonvulsant; antifungal;  
KW antiparasitic; cardiac; immune disorder; cardiovascular disorder;  
KW neurological disease; infection; nephrotropic; gene therapy; vaccine.  
XX  
OS Homo sapiens.  
XX  
XX US2002090672-A1.  
XX  
PD 11-JUL-2002.  
XX  
PP 17-JAN-2001; 2001US-0764853.  
XX  
PR 31-JAN-2000; 2000US-179065P.  
PR 04-FEB-2000; 2000US-180628P.  
PR 28-JUN-2000; 2000US-214886P.  
PR 07-JUL-2000; 2000US-216647P.  
PR 07-JUL-2000; 2000US-216880P.  
PR 11-JUL-2000; 2000US-217487P.  
PR 11-JUL-2000; 2000US-217496P.  
PR 14-JUL-2000; 2000US-218290P.  
PR 26-JUL-2000; 2000US-220963P.  
PR 26-JUL-2000; 2000US-220964P.  
PR 14-AUG-2000; 2000US-224518P.  
PR 14-AUG-2000; 2000US-224519P.  
PR 14-AUG-2000; 2000US-225267P.  
PR 14-AUG-2000; 2000US-225268P.  
PR 14-AUG-2000; 2000US-225270P.  
PR 14-AUG-2000; 2000US-225447P.  
PR 14-AUG-2000; 2000US-225757P.  
PR 14-AUG-2000; 2000US-225758P.  
PR 22-AUG-2000; 2000US-226686P.  
PR 30-AUG-2000; 2000US-228924P.  
PR 01-SEP-2000; 2000US-229287P.  
PR 01-SEP-2000; 2000US-229143P.  
PR 01-SEP-2000; 2000US-229344P.  
PR 01-SEP-2000; 2000US-229345P.  
PR 01-SEP-2000; 2000US-229509P.  
PR 05-SEP-2000; 2000US-229513P.  
PR 08-SEP-2000; 2000US-231413P.  
PR 21-SEP-2000; 2000US-234223P.  
PR 21-SEP-2000; 2000US-234274P.  
PR 25-SEP-2000; 2000US-234997P.  
PR 27-SEP-2000; 2000US-235834P.  
PR 29-SEP-2000; 2000US-236327P.  
PR 29-SEP-2000; 2000US-236367P.  
PR 29-SEP-2000; 2000US-236368P.  
PR 29-SEP-2000; 2000US-236369P.  
PR 29-SEP-2000; 2000US-236370P.  
PR 02-OCT-2000; 2000US-236802P.  
PR 02-OCT-2000; 2000US-237037P.  
PR 02-OCT-2000; 2000US-237038P.  
PR 02-OCT-2000; 2000US-237039P.  
PR 02-OCT-2000; 2000US-237040P.  
PR 13-OCT-2000; 2000US-239935P.  
PR 20-OCT-2000; 2000US-240960P.  
PR 20-OCT-2000; 2000US-241785P.  
PR 20-OCT-2000; 2000US-241809P.  
PR 01-NOV-2000; 2000US-244617P.  
PR 17-NOV-2000; 2000US-249299P.  
PR 08-DEC-2000; 2000US-251856P.  
PR 08-DEC-2000; 2000US-251868P.  
PR 08-DEC-2000; 2000US-251869P.  
XX  
XX (ROSE/) ROSEN C A.  
PA (RUBE/) RUBEN S M.  
PA (BARA/) BARASH S C.  
XX  
PI Rosen CA, Ruben SM, Barash SC;  
XX

JR WPI; 2002-681727/73.  
JR N-PSDB; ABV83908.  
X Novel polypeptide useful for diagnosis, prognosis, prevention, and  
T treatment of immune, hyperproliferative, renal, respiratory,  
T cardiovascular, reproductive, endocrine, gastrointestinal and  
T neurological disorders  
X  
X Claim 11; SEQ ID NO 657; 369pp + Sequence Listing; English.  
X  
X The invention relates to novel genes (ABV83682-ABV84101) and proteins  
C (ABP66710-ABP67129) useful for preventing, treating or ameliorating  
C medical conditions e.g. by protein or gene therapy. The genes are  
C isolated from a range of human tissues disclosed in the specification.  
C The nucleic acids, proteins, antibodies and (ant)agonists are useful  
C in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast  
C and ovarian cancer and other cancers of the adrenal gland, bone, bone  
C marrow, breast, gastrointestinal tract, liver, lung, or urogenital;  
C (b) immune disorders e.g. Addison's disease, allergies, autoimmune  
C haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's  
C disease, multiple sclerosis, rheumatoid arthritis and ulcerative  
C colitis; (c) cardiovascular disorders such as myocardial ischaemias;  
C (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and  
C epilepsy; and (f) infectious diseases such as viral, bacterial, fungal  
C and parasitic infections.  
C Note: The sequence data for this patent did not form part of the  
C printed specification, but was obtained in electronic format directly  
C from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.  
X  
X Sequence 553 AA;  
Q  
Query Match 59.2%; Score 452; DB 23; Length 553;  
Best Local Similarity 99.8%; Pred. No. 0;  
Matches 552; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
Y 101 LEVLQGRNSIRQIEVGAENGLASLNTLEFDNLWTVIPSGAFEYLSKRLRLNRNPIE 160  
b 1 LEVLQGRNSIRQIEVGAENGLASLNTLEFDNLWTVIPSGAFEYLSKRLRLNRNPIE 60  
Y 161 SIFSYAFNVPISLMRLDLGELKKLEYISGAFEGFLNKLKYLNLGMCNKDMPNLPVLGL 220  
b 61 SIFSYAFNVPISLMRLDLGELKKLEYISGAFEGFLNKLKYLNLGMCNKDMPNLPVLGL 120  
Y 221 SELEMSGNHFFETPCSGFCLSSKLKWLWNSQVSLIERNAFDGLASVELNLAHNLS 280  
b 121 SELEMSGNHFFETPCSGFCLSSKLKWLWNSQVSLIERNAFDGLASVELNLAHNLS 180  
Y 281 LPDLFTPLRYLVELHLHNPWNCDDILWLAWLREYIPTNSTCCGRCHAPMHRGYL 340  
b 181 LPDLFTPLRYLVELHLHNPWNCDDILWLAWLREYIPTNSTCCGRCHAPMHRGYL 240  
Y 341 VEYDQASFOCSAPPINDAPDLNISEGRMAELKCRTPPMSSVKVLLPNGTVLSHASRHR 400  
b 241 VEYDQASFOCSAPPINDAPDLNISEGRMAELKCRTPPMSSVKVLLPNGTVLSHASRHR 300  
Y 401 ISVINDGTLNFSHLLSDTGVTCTWTVNAGNSASAVLNVSAGLNTSNYSFFTTTVE 460  
b 301 ISVINDGTLNFSHLLSDTGVTCTWTVNAGNSASAVLNVSAGLNTSNYSFFTTTVE 360  
Y 461 TTEISPEDTRKYPVPTSTGQPAYTSTTVLQTRVPQVAVPATDITDKMQTSLD 520  
b 361 TTEISPEDTRKYPVPTSTGQPAYTSTTVLQTRVPQVAVPATDITDKMQTSLD 420  
Y 521 EVNKTTLIIIGCFVATLLAAAMLIVFYKLRKHQRSTVTARTVLIQVDEDIPAAITS 580  
b 421 EVNKTTLIIIGCFVATLLAAAMLIVFYKLRKHQRSTVTARTVLIQVDEDIPAAITS 480  
Y 581 AATAAPSGVSGEAVLPTIHCHINNTYKPAKGAHTENSIGNSLHPTVTITSEPYII 640  
b 481 AATAAPSGVSGEAVLPTIHCHINNTYKPAKGAHTENSIGNSLHPTVTITSEPYII 540  
Y 641 QTHYKDKVQETQI 653  
b 641 QTHYKDKVQETQI 653

Db 541 QTHYKDKVQETQI 553

RESULT 21  
AAB23044  
ID AAB23044 standard; Protein; 448 AA.  
XX  
AC AAB23044;  
XX  
DT 16-JAN-2001 (first entry)  
XX  
DE Human SLIT protein-like splice variant, SECX 3352358-S153A.  
XX  
KW SECX protein; human; secreted; membrane-associated; cancer;  
KW proliferation regulator; differentiation regulator; non-malignant tumour;  
KW immune disorder; autoimmune disease; transplant rejection; allergy; AIDS;  
KW infection; inflammatory disorder; arthritis; haematopoietic disorder;  
KW skin disorder; cardiovascular disorder; atherosclerosis; restenosis;  
KW neurological disease; Alzheimer's disease; trauma; wounding;  
KW spinal cord injury; skeletal disorder; cytostatic; immunosuppressive;  
KW anti-HIV; antiinflammatory; antiarthritic; antiarteriosclerotic;  
KW neuroprotective; vulnary; antiallergic; antimicrobial; cardiac;  
KW dermatological; gene therapy.  
XX  
OS Homo sapiens.  
XX  
FN WO2000053742-A2.  
XX  
PD 14-SEP-2000.  
XX  
PF 09-MAR-2000; 2000WO-US06280.  
XX  
PR 09-MAR-1999; 99US-0123667.  
PR 08-MAR-2000; 2000US-0123667.  
XX  
XX (CURA-) CURAGEN CORP.  
XX  
XX Shimkets RA;  
XX  
XX WPI; 2000-594318/56.  
DR N-PSDB; AAA93631.  
XX  
PT Novel human membrane associated or secreted polypeptides and  
PT polynucleotides useful for diagnosis, prevention and treatment of  
PT pathological states such as cancer, immune, cardiovascular and  
PT neurological disorders  
XX  
XX Claim 1; Fig 17B; 151pp; English.  
XX  
XX Sequences AAB23029-B23048 represent human SECX proteins. The SECX  
XX proteins of the invention are either secreted or membrane-associated  
XX and act as regulator of cellular proliferation and  
XX differentiation. SECX proteins or nucleotides are useful for diagnosing  
XX the presence of, or predisposition to, a disease associated with altered  
XX levels of SECX proteins and nucleotides. The SECX proteins are also  
XX useful to screen compounds that modulate SECX activity or expression. The  
XX interaction of a SECX protein with other cellular proteins may be useful  
XX to modulate the activity of a partner protein, cellular proliferation,  
XX cellular differentiation and cell survival. SECX nucleotides are useful  
XX for the recombinant expression of SECX protein, and may be used to detect  
XX SECX mRNA or genetic lesions in the SECX gene. They may also be used to  
XX modulate SECX expression (e.g., using antisense oligonucleotides). SECX  
XX nucleic acid sequences are also useful for identifying a cell or tissue  
XX type in a biological sample, and in forensic biology. SECX primers or  
XX probes are useful for detecting the presence of SECX nucleotides and for  
XX screening tissue cultures for contamination. Diseases that may be treated  
XX or prevented using SECX proteins or nucleotides include cancer (e.g.,  
XX colorectal carcinoma, prostate cancer), benign tumours, immune disorders  
XX (including autoimmune diseases, transplant rejection, allergies, AIDS),  
XX infections, inflammatory disorders, arthritis, haematopoietic disorders,  
XX skin disorders, cardiovascular disorders, atherosclerosis, restenosis,  
XX neurological diseases (e.g., Alzheimer's disease), trauma (e.g.,  
XX surgical or traumatic wounds, spinal cord injury), and skeletal



CC disorders.  
 XX SQ Sequence 448 AA;  
 Query Match 68.6%; Score 448; DB 21; Length 448;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 448; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 45 NCPVSCSNQPSKVVCTRGSLSEVPGQIPSNTRYLNLMNENIOMIQADTFPHLHLEVL 104  
 Db 1 NCPVSCSNQPSKVVCTRGSLSEVPGQIPSNTRYLNLMNENIOMIQADTFPHLHLEVL 60

QY 105 QLGENSIQIEVGAFAFGSLASINTLELFDNWLTVIPSGAPEYLSKRELWLNPNPESIPS 164  
 Db 61 QLGENSIQIEVGAFAFGSLASINTLELFDNWLTVIPSGAPEYLSKRELWLNPNPESIPS 120

QY 165 YAFNRVPSLMRLDLGLKLEIYSEGAFGLFNLYKVLNMGMCNIDMPNLTPLVGLSELE 224  
 Db 121 YAFNRVPSLMRLDLGLKLEIYSEGAFGLFNLYKVLNMGMCNIDMPNLTPLVGLSELE 180

QY 225 MSGNHFFPEIRPGSFHGLSSLKLVWVNSQVSLIERNAPDGLASLVELNLAENNLSSLPHD 284  
 Db 181 MSGNHFFPEIRPGSFHGLSSLKLVWVNSQVSLIERNAPDGLASLVELNLAENNLSSLPHD 240

QY 285 LFTPLRYLVLELHHPNWCDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYLVVD 344  
 Db 241 LFTPLRYLVLELHHPNWCDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYLVVD 300

QY 345 QASFOCSAPPIMDAPDLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHARHPRISVL 404  
 Db 301 QASFOCSAPPIMDAPDLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHARHPRISVL 360

QY 405 NDLTLNFSHLLSDTGVTTCWNTVAGNSASAYLNVAELNTSNYFFTVIVETEI 464  
 Db 361 NDLTLNFSHLLSDTGVTTCWNTVAGNSASAYLNVAELNTSNYFFTVIVETEI 420

QY 465 SPEDTRKYKPVPTSTGTQPAYTTSIT 492  
 Db 421 SPEDTRKYKPVPTSTGTQPAYTTSIT 448

RESULT 22  
 AAB43091  
 ID AAB43091 standard; Protein; 441 AA.  
 XX AC AAB43091;  
 XX DT 08-FEB-2001 (first entry)  
 XX DE Human ORFX ORF2855 polypeptide sequence SEQ ID NO:5710.  
 KW Human; open reading frame; ORFX; detection; cytostatic; hepatotropic;  
 KW vulnery; antipariatic; antiparkinsonian; neurotropic; neuroprotective;  
 KW anticonvulsant; osteopathic; antiarthritic; immunosuppressant; cardiant;  
 KW immunostimulant; thrombolytic; coagulant; vasotropic; antidiabetic;  
 KW hypotensive; dermatological; immunosuppressive; antiinflammatory;  
 KW antiviral; antibacterial; antifungal; antineumatic; antithyroid;  
 KW antianemic; gene therapy; cancer; proliferative disorder; hypertension;  
 KW neurodegenerative disorder; osteoarthritis; graft vs host disease;  
 KW cardiovascular disease; diabetes mellitus; hypothyroidism; SCID; AIDS;  
 KW cholesterol ester storage; systemic lupus erythematosus; infection;  
 KW severe combined immunodeficiency; malaria; autoimmune disorder; asthma;  
 KW allergy; aplastic anaemia; nocturnal haemoglobinuria; burn; wound;  
 KW bone damage; cartilage damage; antiinflammatory disease; coagulation;  
 KW thrombosis; contraceptive.  
 XX CS Homo sapiens.  
 XX FN WO200058473-A2.  
 XX PD 05-OCT-2000.  
 XX 31-MAR-2000; 2000WO-US08621.

XX 31-MAR-1999; 99US-0127607.  
 PR 02-APR-1999; 99US-0127636.  
 PR 05-APR-1999; 99US-0127728.  
 XX 30-MAR-2000; 2000US-0540763.  
 PA (CURA-) CURAGEN CORP.  
 XX Shimkets RA, Leach M;  
 PI WPI; 2000-602362/57.  
 DR N-PSDB; AAC77300.  
 XX Novel nucleic acids and peptides derived from open reading frame X,  
 PT useful for treating e.g. cancers, proliferative disorders,  
 PT neurodegenerative disorders and cardiovascular disease -  
 PS Claim 11; Page 4877-4878; 5507pp; English.

CC AAC74446 to AAC77606 encode the proteins given in AAB40237 to AAB43397,  
 CC which represent the human ORFX open reading frames 1 to 3161. The ORFX  
 CC sequences have activities such as: cytostatic; hepatotropic; vulnery;  
 CC antipariatic; antiparkinsonian; neurotropic; neuroprotective;  
 CC osteopathic; anticonvulsant; antiarthritic; immunosuppressant;  
 CC immunostimulant; cardiant; thrombolytic; coagulant; vasotropic;  
 CC antidiabetic; hypotensive; dermatological; immunosuppressive;  
 CC antiinflammatory; antibacterial; antifungal; antineumatic;  
 CC antithyroid; and antianemic. The sequences can be used for determining  
 CC the presence of or predisposition to, or preventing or treating  
 CC pathological conditions associated with an ORFX-associated disorder. The  
 CC nucleic acids can be used to express ORFX proteins in gene therapy  
 CC vectors. The proteins and nucleic acids may be used to treat cancers,  
 CC proliferative disorders, neurodegenerative disorders, osteoarthritis,  
 CC graft vs host disease, cardiovascular disease, diabetes mellitus, lupus  
 CC erythematosus, severe combined immunodeficiency (SCID), AIDS, viral,  
 CC bacterial or fungal infection, malaria, autoimmune disorders, asthma,  
 CC allergies, aplastic anaemia, burns, wounds, bone and cartilage damage,  
 CC nocturnal haemoglobinuria, antiinflammatory disease, to enhance  
 CC coagulation, to inhibit thrombosis, and as a contraceptive.  
 XX SQ Sequence 441 AA;

Query Match 66.3%; Score 433; DB 21; Length 441;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 433; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 221 BELEMSGNHFFPEIRPGSFHGLSSLKLVWVNSQVSLIERNAPDGLASLVELNLAENNLSS 280  
 Db 9 BELEMSGNHFFPEIRPGSFHGLSSLKLVWVNSQVSLIERNAPDGLASLVELNLAENNLSS 68

QY 281 LPHDLFTPLRYLVLELHHPNWCDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYL 340  
 Db 69 LPHDLFTPLRYLVLELHHPNWCDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYL 128

QY 341 VEVDQASFOCSAPPIMDAPDLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHARHPR 400  
 Db 129 VEVDQASFOCSAPPIMDAPDLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHARHPR 188

QY 401 ISVLNDGTNFSHLLSDTGVTTCWNTVAGNSASAYLNVAELNTSNYFFTVIVETI 460  
 Db 189 ISVLNDGTNFSHLLSDTGVTTCWNTVAGNSASAYLNVAELNTSNYFFTVIVETI 248

QY 461 TTEISPEDTRKYKPVPTSTGTQPAYTTSITVLIQTRVPKQVAVPATDTDMQTSLD 520  
 Db 249 TTEISPEDTRKYKPVPTSTGTQPAYTTSITVLIQTRVPKQVAVPATDTDMQTSLD 308

QY 521 EVMKTKIIIGCFVAVTLLAAAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIPATS 580  
 Db 309 EVMKTKIIIGCFVAVTLLAAAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIPATS 368

QY 581 AAATAASGSVSGEAVVLPHTIHDHINTYKPAHGAHTWNSLGNSTHPTVTTSIBYII 640

b 369 AAATAAPSGVSGGAVLPTIHDHINNTYKPAHGAHTWNSLGNLSLHPTVTITSEPVII 428  
 Y 641 QTHKDKVQSTQI 653  
 b 429 QTHKDKVQSTQI 441  
 RESULT 23  
 BG98014  
 D ABG98014 standard; Protein; 649 AA.  
 X X  
 C ABG98014;  
 X X  
 T 07-JAN-2003 (first entry)  
 X X  
 NE Human leucine rich repeat domain protein associated protein #1.  
 X X  
 W Leucine rich repeat; nervous system; human; neural disorder; apoptosis;  
 W renal disorder; immune disorder; arthritis; asthma; AIDS;  
 W acquired immunodeficiency syndrome; rheumatoid arthritis;  
 W haematopoietic disorder; metabolic disease; hyperproliferative disorder;  
 W pulmonary disease; cardiovascular disease; hyperproliferative disorder;  
 W neurodegenerative disease; Alzheimer's disease; Parkinson's disease;  
 W Huntington's disease; developmental disorder; autoimmune disease;  
 W Addison's disease; haemolytic anaemia; antiphospholipid syndrome;  
 W allergic encephalomyelitis; gene therapy.  
 X X  
 XS Homo sapiens.  
 X X  
 N WO200274959-A2.  
 X X  
 D 26-SEP-2002.  
 X X  
 F 20-DEC-2001; 2001WO-US50457.  
 X X  
 R 03-JAN-2001; 2001US-259479P.  
 R 09-JAN-2001; 2001US-260616P.  
 X X  
 A (BRIM ) BRISTOL-MYERS SQUIBB CO.  
 X X  
 I Ramanathan C, Feder J, Mintier G;  
 X X  
 R WPI; 2002-750554/81.  
 X X  
 T New HLRNS1 nucleic acids and polypeptides, useful for preventing,  
 T treating, or ameliorating e.g. renal disorder, immune, hematopoietic,  
 T metabolic, reproductive, pulmonary, cardiovascular or autoimmune  
 T diseases  
 X X  
 S Example 5; Page 412-415; 415pp; English.  
 X X  
 C The invention describes nucleic acids encoding human leucine-rich repeat  
 C containing proteins expressed in nervous system tissues, HLRNS1. The  
 C HLRNS1 polypeptide or the polynucleotide is useful for preventing,  
 C treating, or ameliorating a neural disorder or a disorder related to  
 C aberrant apoptosis modulation (either directly or indirectly), renal  
 C disorder, immune disorder (e.g. arthritis, asthma, acquired  
 C immunodeficiency syndrome (AIDS) or rheumatoid arthritis),  
 C haematopoietic, metabolic, reproductive, pulmonary or cardiovascular  
 C diseases, hyperproliferative disorders, neurodegenerative diseases  
 C (e.g. Alzheimer's disease, Parkinson's disease or Huntington's  
 C disease), developmental disorders, non-infections disorders, nervous  
 C system diseases and/or disorders, and autoimmune diseases (e.g.  
 C Addison's disease, haemolytic anaemia, antiphospholipid syndrome, or  
 C allergic encephalomyelitis). The polynucleotides are also useful as  
 C chromosome markers, for chromosome identification, gene therapy, and in  
 C identifying organisms from minute biological samples. This is the amino  
 C acid sequence of a peptide associated with the leucine-rich repeat  
 C containing nervous system protein of the invention.  
 X X  
 Q Sequence 649 AA;

Query Match 60.6%; Score 396; DB 23; Length 649;

Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 396; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 258 ERNADFGLASIVELNLAHNNLSLPHDLPTPLRYLVELHLHNPWNCDCDILWLAWLRE 317  
 Db |||||||  
 QY 254 ERNADFGLASIVELNLAHNNLSLPHDLPTPLRYLVELHLHNPWNCDCDILWLAWLRE 313  
 Db |||||||  
 QY 318 YIFPNSTCCGRCHAPMEMRGYLYVEVDQASFOCSAPFIMDAPRDLNISEGRMAELKCRTP 377  
 Db |||||||  
 QY 314 YIFPNSTCCGRCHAPMEMRGYLYVEVDQASFOCSAPFIMDAPRDLNISEGRMAELKCRTP 373  
 Db |||||||  
 QY 378 PMSSVKWLLPENGTVLSHSPRI SVLNDGTLPNSVLLSDTGVTTCMTNVAGNSASA 437  
 Db |||||||  
 QY 374 PMSSVKWLLPENGTVLSHSPRI SVLNDGTLPNSVLLSDTGVTTCMTNVAGNSASA 433  
 Db |||||||  
 QY 438 YLNVSTAEALNTSNYSPTTIVTETTSISPEDITRKYPVPTTSTGYOPAYTTSTTVLIQT 497  
 Db |||||||  
 QY 434 YLNVSTAEALNTSNYSPTTIVTETTSISPEDITRKYPVPTTSTGYOPAYTTSTTVLIQT 493  
 Db |||||||  
 QY 498 TRVPKQAVPATDTTDMQTSLEVMKTKIIGCVAVTLLAAAMLIVFYKLRKHQR 557  
 Db |||||||  
 QY 494 TRVPKQAVPATDTTDMQTSLEVMKTKIIGCVAVTLLAAAMLIVFYKLRKHQR 553  
 Db |||||||  
 QY 558 STVTAARTVEIIQVDEDI PAATSAATAAPSGVSGGAVVLPITHDHINNTYKPAHGAH 617  
 Db |||||||  
 QY 554 STVTAARTVEIIQVDEDI PAATSAATAAPSGVSGGAVVLPITHDHINNTYKPAHGAH 613  
 Db |||||||  
 QY 618 WTENSLGNLSLHPTVTITSEPIIQTHTKDKVQSTQI 653  
 Db |||||||  
 QY 614 WTENSLGNLSLHPTVTITSEPIIQTHTKDKVQSTQI 649  
 Db |||||||  
 RESULT 24  
 AAB23034  
 ID AAB23034 standard; Protein; 590 AA.  
 X X  
 AC AAB23034;  
 X X  
 DT 16-JAN-2001 (first entry)  
 X X  
 DE Human SLIT protein-like splice variant, SECX 3352358-2.  
 X X  
 KW SECX protein; human; secreted; membrane-associated; cancer;  
 KW proliferation regulator; differentiation regulator; non-malignant tumour;  
 KW immune disorder; autoimmune disease; transplant rejection; allergy; AIDS;  
 KW infection; inflammatory disorder; arthritis; haematopoietic disorder;  
 KW skin disorder; cardiovascular disorder; atherosclerosis; testenosis;  
 KW neurological disease; Alzheimer's disease; trauma; wounding;  
 KW spinal cord injury; skeletal disorder; cystostatic; immunosuppressive;  
 KW anti-HIV; antiinflammatory; antithrombotic; antiarteriosclerotic;  
 KW neuroprotective; vulnary; antiallergic; antimicrobial; cardiant;  
 KW dermatological; gene therapy.  
 X X  
 OS Homo sapiens.  
 X X  
 PN WO200053742-A2.  
 X X  
 PD 14-SEP-2000.  
 X X  
 PF 09-MAR-2000; 2000WO-US06280.  
 X X  
 PR 09-MAR-1999; 99US-0123667.  
 X X  
 PR 08-MAR-2000; 2000US-0123667.  
 X X  
 PA (CURA-) CURAGEN CORP.  
 X X  
 PI Shimkets RA;  
 X X  
 DR WPI; 2000-594318/56.  
 DR N-FSDB; AAA93621.  
 X X  
 PT Novel human membrane associated or secreted polypeptides and  
 PT polynucleotides useful for diagnosis, prevention and treatment of

PT pathological states such as cancer, immune, cardiovascular and  
PT neurological disorders  
PS Claim 1; Fig 6; 151pp; English.  
XX Sequences AAB23029-B23048 represent human SECX proteins. The SECX  
CC proteins of the invention are either secreted or membrane-associated  
CC proteins and act as regulator of cellular proliferation and  
CC differentiation. SECX proteins or nucleotides are useful for diagnosing  
CC the presence of, or predisposition to, a disease associated with altered  
CC levels of SECX proteins and nucleotides. The SECX proteins are also  
CC useful to screen compounds that modulate SECX activity or expression. The  
CC interaction of a SECX protein with other cellular proteins may be useful  
CC to modulate the activity of a partner protein, cellular proliferation,  
CC for the recombinant expression of SECX protein, and may be used to detect  
CC SECX mRNA or genetic lesions in the SECX gene. They may also be used to  
CC modulate SECX expression (e.g., using antisense oligonucleotides). SECX  
CC nucleic acid sequences are also useful for identifying a cell or tissue  
CC type in a biological sample, and in forensic biology. SECX primers or  
CC probes are useful for detecting the presence of SECX nucleotides and for  
CC screening tissue cultures for contamination. Diseases that may be treated  
CC or prevented using SECX proteins or nucleotides include cancer (e.g.,  
CC colorectal carcinoma, prostate cancer), benign tumours, immune disorders  
CC (including autoimmune diseases, transplant rejection, allergies, AIDS),  
CC infections, inflammatory disorders, arthritis, haematopoietic disorders,  
CC skin disorders, cardiovascular disorders, atherosclerosis, restenosis,  
CC neurological diseases (e.g., Alzheimer's disease), trauma (e.g.,  
CC surgical or traumatic wounds, spinal cord injury), and skeletal  
XX disorders.  
SQ Sequence 590 AA;  
Query Match 49.6%; Score 324; DB 21; Length 590;  
Best Local Similarity 99.8%; Pred. No. 5e-304;  
Matches 424; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 M K L L Q V T V E H H T W N A I L P F V I L T A Q W I L C A A T A A A S A G P Q N C S C S Q P S K V V 60  
Db 1 M K L L Q V T V E H H T W N A I L P F V I L T A Q W I L C A A T A A A S A G P Q N C S C S Q P S K V V 60  
QY 61 C T E R G L S E V P Q G I P S N T R Y L N L M E N N I Q M I Q A D T F R H L H L V L Q L G R N S I R Q I E V G A F N 120  
Db 61 C T E R G L S E V P Q G I P S N T R Y L N L M E N N I Q M I Q A D T F R H L H L V L Q L G R N S I R Q I E V G A F N 120  
QY 121 G L A S L T L E L F D N W L T V P S G A F E Y L S K L R E L W L R N N P I E S I P S V A F N R V P S L M E L D L G E 180  
Db 121 G L A S L T L E L F D N W L T V P S G A F E Y L S K L R E L W L R N N P I E S I P S V A F N R V P S L M E L D L G E 180  
QY 181 L K K L E Y I S G A G E G L F N L K Y L N L G M C N I K D M P N L T P L V G L S E L M S G N H F P E I R P G S F H G 240  
Db 181 L K K L E Y I S G A G E G L F N L K Y L N L G M C N I K D M P N L T P L V G L S E L M S G N H F P E I R P G S F H G 240  
QY 241 L S S L K K L W M N S Q V S L I E R N A T D G L A S I V E L M L A N N E L S S I P H D L F T P L R V L V E L H L H N 300  
Db 241 L S S L K K L W M N S Q V S L I E R N A T D G L A S I V E L M L A N N E L S S I P H D L F T P L R V L V E L H L H N 300  
QY 301 P W N C D D I L L A W L R E Y I P T N S T C G R C H A P M H V R G Y L V E V D Q A S F Q C S A P I M D A P R 360  
Db 301 P W N C D D I L L A W L R E Y I P T N S T C G R C H A P M H V R G Y L V E V D Q A S F Q C S A P I M D A P R 360  
QY 361 D L N I S E G R M A E L K R T P P M S S V K L L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420  
Db 361 D L N I S E G R M A E L K R T P P M S S V K L L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420  
QY 421 V Y T C M 425  
Db 421 V Y T C M 425

RESULT 25  
AAB23033  
ID AAB23033 standard; Protein; 694 AA.

XX AAB23033;  
AC 16-JAN-2001 (first entry)  
XX Human SLIT protein-like splice variant, SECX 3352358-1.  
XX SECX protein; human; secreted; membrane-associated; cancer;  
KW proliferation regulator; differentiation regulator; non-malignant tumour;  
KW immune disorder; autoimmune disease; transplant rejection; allergy; AIDS;  
KW infection; inflammatory disorder; arthritis; haematopoietic disorder;  
KW skin disorder; cardiovascular disorder; atherosclerosis; restenosis;  
KW neurological disease; Alzheimer's disease; trauma; wounding;  
KW spinal cord injury; skeletal disorder; cytostatic; immunosuppressive;  
KW anti-HIV; antiinflammatory; antiarthritic; antiarteriosclerotic;  
KW neuroprotective; vulnery; antiallergic; antimicrobial; cardiant;  
KW dermatological; gene therapy.  
XX Homo sapiens.  
OS  
FH Key Location/Qualifiers  
FT Misc-difference 654 /label= unknown  
FT /note= "Encoded by TGA"  
XX WO200053742-A2.  
XX 14-SEP-2000.  
XX 09-MAR-2000; 2000WO-US06280.  
XX 09-MAR-1999; 99US-0123667.  
XX 08-MAR-2000; 2000US-0123667.  
XX (CURA-) CURAGEN CORP.  
XX Shimkets RA;  
XX WPI: 2000-594318/56.  
XX N-PSDB; AA93620.  
XX Novel human membrane associated or secreted polypeptides and  
PT polynucleotides useful for diagnosis, prevention and treatment of  
PT pathological states such as cancer, immune, cardiovascular and  
PT neurological disorders  
XX Claim 1; Fig 5; 151pp; English.  
XX Sequences AAB23029-B23048 represent human SECX proteins. The SECX  
CC proteins of the invention are either secreted or membrane-associated  
CC proteins and act as regulator of cellular proliferation and  
CC differentiation. SECX proteins or nucleotides are useful for diagnosing  
CC the presence of, or predisposition to, a disease associated with altered  
CC levels of SECX proteins and nucleotides. The SECX proteins are also  
CC useful to screen compounds that modulate SECX activity or expression. The  
CC interaction of a SECX protein with other cellular proteins may be useful  
CC to modulate the activity of a partner protein, cellular proliferation,  
CC for the recombinant expression of SECX protein, and may be used to detect  
CC SECX mRNA or genetic lesions in the SECX gene. They may also be used to  
CC modulate SECX expression (e.g., using antisense oligonucleotides). SECX  
CC nucleic acid sequences are also useful for identifying a cell or tissue  
CC type in a biological sample, and in forensic biology. SECX primers or  
CC probes are useful for detecting the presence of SECX nucleotides and for  
CC screening tissue cultures for contamination. Diseases that may be treated  
CC or prevented using SECX proteins or nucleotides include cancer (e.g.,  
CC colorectal carcinoma, prostate cancer), benign tumours, immune disorders  
CC (including autoimmune diseases, transplant rejection, allergies, AIDS),  
CC infections, inflammatory disorders, arthritis, haematopoietic disorders,  
CC skin disorders, cardiovascular disorders, atherosclerosis, restenosis,  
CC neurological diseases (e.g., Alzheimer's disease), trauma (e.g.,  
CC surgical or traumatic wounds, spinal cord injury), and skeletal  
CC disorders.

X  
 Q Sequence 694 AA;  
 Query Match 49.6%; Score 324; DB 21; Length 694;  
 Best Local Similarity 99.8%; Pred. No. 5.8e-304;  
 Matches 424; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 Y 1 MKLLAQVTVHHTWNAILLPFVYLTQAQWILCAIAAAAGAGPQNCPSVCSNQSFKV 60  
 D 1 MKLLAQVTVHHTWNAILLPFVYLTQAQWILCAIAAAAGAGPQNCPSVCSNQSFKV 60  
 Y 61 CTRGLSEVPQGISNTYILNKNNTQIADTFRLHLEVLQGLRNSIRQIEVGA 120  
 D 61 CTRGLSEVPQGISNTYILNKNNTQIADTFRLHLEVLQGLRNSIRQIEVGA 120  
 Y 121 GLASLTLELFDNMLTVIPSGAFYLSKRLRLNPNPIESIPSYAFNRVPSLRDLGE 180  
 D 121 GLASLTLELFDNMLTVIPSGAFYLSKRLRLNPNPIESIPSYAFNRVPSLRDLGE 180  
 Y 181 LKLEYISGAFEGLEFNLYNLGNCKNPKNLTPLVGLBELEMGNGHPPEIRPGSF 240  
 b 181 LKLEYISGAFEGLEFNLYNLGNCKNPKNLTPLVGLBELEMGNGHPPEIRPGSF 240  
 Y 241 LSSLLKLVWANSQVSLIERNADFGLASIVELNLAHNLSSLPDLFTPLRYLVELHLHN 300  
 b 241 LSSLLKLVWANSQVSLIERNADFGLASIVELNLAHNLSSLPDLFTPLRYLVELHLHN 300  
 Y 301 PNCDCDILNLAWLREVIPTNSTCCGRCHAPMHRGRYLVVDQASFOCSAPFINDAPR 360  
 b 301 PNCDCDILNLAWLREVIPTNSTCCGRCHAPMHRGRYLVVDQASFOCSAPFINDAPR 360  
 Y 361 DLNISEGEMALKCRTPPMSSVKLLPNGTVLSHSHRPRISVLNDGTLNFSHVLLSDTG 420  
 b 361 DLNISEGEMALKCRTPPMSSVKLLPNGTVLSHSHRPRISVLNDGTLNFSHVLLSDTG 420  
 Y 421 VYTCM 425  
 b 421 VYTCM 425  
 RESULT 26  
 BB10522  
 D ABB10522 standard; Protein; 281 AA.  
 X  
 C ABB10522;  
 X  
 T 10-JAN-2002 (first entry)  
 X  
 E Human cDNA SEQ ID NO: 830.  
 X  
 W Human; gene therapy; neural disorder; immune system disorder;  
 W muscular disorder; reproductive disorder; gastrointestinal disorder;  
 W pulmonary disorder; cardiovascular disorder; renal disorder;  
 W proliferative disorder; inflammation.  
 X  
 S Homo sapiens.  
 X  
 N WO200154474-A2.  
 X  
 D 02-AUG-2001.  
 X  
 F 17-JAN-2001; 2001WO-US01349.  
 X  
 X 31-JAN-2000; 2000US-179065P.  
 R 04-FEB-2000; 2000US-180628P.  
 R 24-FEB-2000; 2000US-184664P.  
 R 02-MAR-2000; 2000US-185350P.  
 R 16-MAR-2000; 2000US-189874P.  
 R 17-MAR-2000; 2000US-190076P.  
 R 18-APR-2000; 2000US-198123P.  
 R 19-MAY-2000; 2000US-205515P.  
 R 07-JUN-2000; 2000US-209467P.  
 R 28-JUN-2000; 2000US-214886P.  
 PR 30-JUN-2000; 2000US-215135P.  
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 PR 11-JUL-2000; 2000US-217496P.  
 PR 14-JUL-2000; 2000US-218290P.  
 PR 26-JUL-2000; 2000US-220963P.  
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 PR 14-AUG-2000; 2000US-224518P.  
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 PR 14-AUG-2000; 2000US-225213P.  
 PR 14-AUG-2000; 2000US-225214P.  
 PR 14-AUG-2000; 2000US-225266P.  
 PR 14-AUG-2000; 2000US-225267P.  
 PR 14-AUG-2000; 2000US-225268P.  
 PR 14-AUG-2000; 2000US-225270P.  
 PR 14-AUG-2000; 2000US-225447P.  
 PR 14-AUG-2000; 2000US-225757P.  
 PR 14-AUG-2000; 2000US-225758P.  
 PR 14-AUG-2000; 2000US-225759P.  
 PR 18-AUG-2000; 2000US-226279P.  
 PR 22-AUG-2000; 2000US-226681P.  
 PR 22-AUG-2000; 2000US-226682P.  
 PR 23-AUG-2000; 2000US-227182P.  
 PR 23-AUG-2000; 2000US-227009P.  
 PR 30-AUG-2000; 2000US-228924P.  
 PR 01-SEP-2000; 2000US-229287P.  
 PR 01-SEP-2000; 2000US-229343P.  
 PR 01-SEP-2000; 2000US-229344P.  
 PR 01-SEP-2000; 2000US-229345P.  
 PR 05-SEP-2000; 2000US-229509P.  
 PR 05-SEP-2000; 2000US-229513P.  
 PR 06-SEP-2000; 2000US-230437P.  
 PR 06-SEP-2000; 2000US-230438P.  
 PR 08-SEP-2000; 2000US-231242P.  
 PR 08-SEP-2000; 2000US-231243P.  
 PR 08-SEP-2000; 2000US-231244P.  
 PR 08-SEP-2000; 2000US-231413P.  
 PR 08-SEP-2000; 2000US-231414P.  
 PR 08-SEP-2000; 2000US-232080P.  
 PR 08-SEP-2000; 2000US-232081P.  
 PR 12-SEP-2000; 2000US-231968P.  
 PR 14-SEP-2000; 2000US-232397P.  
 PR 14-SEP-2000; 2000US-232398P.  
 PR 14-SEP-2000; 2000US-232399P.  
 PR 14-SEP-2000; 2000US-232401P.  
 PR 14-SEP-2000; 2000US-232402P.  
 PR 14-SEP-2000; 2000US-233063P.  
 PR 14-SEP-2000; 2000US-233064P.  
 PR 14-SEP-2000; 2000US-233065P.  
 PR 21-SEP-2000; 2000US-234223P.  
 PR 21-SEP-2000; 2000US-234274P.  
 PR 25-SEP-2000; 2000US-234997P.  
 PR 25-SEP-2000; 2000US-234998P.  
 PR 26-SEP-2000; 2000US-235484P.  
 PR 27-SEP-2000; 2000US-235834P.  
 PR 27-SEP-2000; 2000US-235835P.  
 PR 29-SEP-2000; 2000US-236327P.  
 PR 29-SEP-2000; 2000US-236367P.  
 PR 29-SEP-2000; 2000US-236368P.  
 PR 29-SEP-2000; 2000US-236369P.  
 PR 29-SEP-2000; 2000US-236370P.  
 PR 02-OCT-2000; 2000US-236802P.  
 PR 02-OCT-2000; 2000US-237037P.  
 PR 02-OCT-2000; 2000US-237038P.  
 PR 02-OCT-2000; 2000US-237039P.  
 PR 02-OCT-2000; 2000US-237040P.  
 PR 13-OCT-2000; 2000US-239935P.  
 PR 13-OCT-2000; 2000US-239937P.  
 PR 20-OCT-2000; 2000US-240960P.  
 PR 20-OCT-2000; 2000US-241211P.  
 PR 20-OCT-2000; 2000US-241785P.  
 PR 20-OCT-2000; 2000US-241786P.

20-OCT-2000; 2000US-241787P.  
 20-OCT-2000; 2000US-241808P.  
 20-OCT-2000; 2000US-241809P.  
 20-OCT-2000; 2000US-241826P.  
 01-NOV-2000; 2000US-244617P.  
 08-NOV-2000; 2000US-246474P.  
 08-NOV-2000; 2000US-246475P.  
 08-NOV-2000; 2000US-246476P.  
 08-NOV-2000; 2000US-246477P.  
 08-NOV-2000; 2000US-246478P.  
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 08-NOV-2000; 2000US-246525P.  
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 08-NOV-2000; 2000US-246527P.  
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 08-NOV-2000; 2000US-246532P.  
 08-NOV-2000; 2000US-246609P.  
 08-NOV-2000; 2000US-246610P.  
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 08-NOV-2000; 2000US-246613P.  
 08-NOV-2000; 2000US-249207P.  
 17-NOV-2000; 2000US-249208P.  
 17-NOV-2000; 2000US-249209P.  
 17-NOV-2000; 2000US-249210P.  
 17-NOV-2000; 2000US-249211P.  
 17-NOV-2000; 2000US-249212P.  
 17-NOV-2000; 2000US-249213P.  
 17-NOV-2000; 2000US-249214P.  
 17-NOV-2000; 2000US-249215P.  
 17-NOV-2000; 2000US-249216P.  
 17-NOV-2000; 2000US-249217P.  
 17-NOV-2000; 2000US-249218P.  
 17-NOV-2000; 2000US-249244P.  
 17-NOV-2000; 2000US-249245P.  
 17-NOV-2000; 2000US-249246P.  
 17-NOV-2000; 2000US-249265P.  
 17-NOV-2000; 2000US-249297P.  
 17-NOV-2000; 2000US-249299P.  
 17-NOV-2000; 2000US-249300P.  
 01-DEC-2000; 2000US-250160P.  
 01-DEC-2000; 2000US-250351P.  
 05-DEC-2000; 2000US-251030P.  
 05-DEC-2000; 2000US-251988P.  
 05-DEC-2000; 2000US-256719P.  
 06-DEC-2000; 2000US-251479P.  
 08-DEC-2000; 2000US-251856P.  
 08-DEC-2000; 2000US-251868P.  
 08-DEC-2000; 2000US-251869P.  
 08-DEC-2000; 2000US-251989P.  
 08-DEC-2000; 2000US-251990P.  
 11-DEC-2000; 2000US-254097P.  
 05-JAN-2001; 2001US-259678P.  
 (HUMA-) HUMAN GENOME SCI INC.

Rosen CA, Barash SC, Ruben SM;  
 WPI; 2001-476161/51.  
 N-PSDB; ABA06744.

Isolated nucleic acid molecule encoding an inflammation-associated polypeptide is used in preventing, treating or ameliorating a medical condition -

Claim 11; SEQ ID NO: 830; 859pp + Sequence Listing; English.

The present invention provides human cDNAs, proteins and related genomic DNAs. These can be used in the treatment of neural, immune system, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal and proliferative disorders and inflammation. The present sequence is a protein of the invention.

Query Match 41.2%; Score 269; DB 22; Length 281;  
 Best Local Similarity 100.0%; Pred. No. 3.6e-251;  
 Matches 289; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 222 ELEMGNHFFPEIRPGSFHGLSSLLKLVWVNSQVSLIERNAFDGLASLVELNLAHNNLSSL 281  
 |||||  
 DB 13 ELEMGNHFFPEIRPGSFHGLSSLLKLVWVNSQVSLIERNAFDGLASLVELNLAHNNLSSL 72  
 |||||

QY 282 PHDLFTPLRYLVVHLLHNPWNCDDILLAWMLREVIPNTSTCCGRCHAPMHRGRYLV 341  
 |||||  
 DB 73 PHDLFTPLRYLVVHLLHNPWNCDDILLAWMLREVIPNTSTCCGRCHAPMHRGRYLV 132  
 |||||

QY 342 EVDQASFQCSAPFIMDAPDLNISEGRMAELKCRTPPMSSVVKLLPNTGTVLASHASHPRI 401  
 |||||  
 DB 133 EVDQASFQCSAPFIMDAPDLNISEGRMAELKCRTPPMSSVVKLLPNTGTVLASHASHPRI 192  
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QY 402 SVLNDGTLNFSEHVLSDTGVTCTMTNVAGNSASAYLNSTASLNTSNYSFPTTVTET 461  
 |||||  
 DB 193 SVLNDGTLNFSEHVLSDTGVTCTMTNVAGNSASAYLNSTASLNTSNYSFPTTVTET 252  
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QY 462 TEISPEDTTRKYKVPVPTTSTGQPAYTTS 490  
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 DB 253 TEISPEDTTRKYKVPVPTTSTGQPAYTTS 281  
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RESULT 27  
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 ID AAU18084 standard; Protein; 281 AA.  
 XX AAU18084;  
 XX  
 DT 07-NOV-2001 (first entry)  
 XX  
 DE Human immunoglobulin polypeptide SEQ ID No 229.  
 XX  
 KW Immunoglobulin; signal transduction pathway protein; cancer;  
 KW antisense therapy; gene therapy; neurological disorder; renal disorder;  
 KW cardiovascular disorder; gastrointestinal disorder; pulmonary disorder;  
 KW reproductive disorder; immune system disorder; proliferative disorder;  
 KW muscular disorder.  
 XX Homo sapiens.  
 OS  
 XX WO200155315-A2.  
 XX  
 PD 02-AUG-2001.  
 XX  
 PF 17-JAN-2001; 2001WO-US01326.  
 XX  
 PR 31-JAN-2000; 2000US-0179065.  
 PR 04-FEB-2000; 2000US-0180628.  
 PR 24-FEB-2000; 2000US-0184664.  
 PR 02-MAR-2000; 2000US-0186350.  
 PR 16-MAR-2000; 2000US-0189874.  
 PR 17-MAR-2000; 2000US-0190076.  
 PR 18-APR-2000; 2000US-0198123.  
 PR 19-MAY-2000; 2000US-0205515.  
 PR 07-JUN-2000; 2000US-0209467.  
 PR 28-JUN-2000; 2000US-0214896.  
 PR 30-JUN-2000; 2000US-0215135.  
 PR 07-JUL-2000; 2000US-0216647.  
 PR 07-JUL-2000; 2000US-0216880.  
 PR 11-JUL-2000; 2000US-0217487.  
 PR 11-JUL-2000; 2000US-0217496.  
 PR 14-JUL-2000; 2000US-0218290.  
 PR 26-JUL-2000; 2000US-0220963.  
 PR 14-AUG-2000; 2000US-0224518.  
 PR 14-AUG-2000; 2000US-0224519.  
 PR 14-AUG-2000; 2000US-0225213.  
 PR 14-AUG-2000; 2000US-0225214.



Query Match 41.2%; Score 269; DB 22; Length 281;  
 Best Local Similarity 100.0%; Pred.No. 3.6e-251; Indels 0; Gaps 0;  
 Matches 269; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 222 ELEMGNHFFPEIRPGSGFLGSLKKLWYMSQVSLIERNAPDGLASLVELNLAHNNLSSL 281  
 DB 13 ELEMGNHFFPEIRPGSGFLGSLKKLWYMSQVSLIERNAPDGLASLVELNLAHNNLSSL 72

QY 282 PHDLTPRLYLVELLHHPNWCDCDILWLAWLREYIPTNSTCCGRCHAPMWRGRLV 341  
 DB 73 PHDLTPRLYLVELLHHPNWCDCDILWLAWLREYIPTNSTCCGRCHAPMWRGRLV 132

QY 342 EVDQASFOCSAPPIMDAPDLNISEGRMAELKCRTPPMSSVKWLLPNTGTVLSHARHPRI 401  
 DB 133 EVDQASFOCSAPPIMDAPDLNISEGRMAELKCRTPPMSSVKWLLPNTGTVLSHARHPRI 192

QY 402 SVLNDGTLNFHSHVLLSDRGVYTCWTVNAGNSASAYLNVSTAEINTSNYSFFTTVTVE 461  
 DB 193 SVLNDGTLNFHSHVLLSDRGVYTCWTVNAGNSASAYLNVSTAEINTSNYSFFTTVTVE 252

QY 462 TEISPEDTTRKYKPVPTTSTGQPAYTTS 490  
 DB 253 TEISPEDTTRKYKPVPTTSTGQPAYTTS 281

RESULT 28  
 ABP67109  
 ID ABP67109 standard; Protein; 281 AA.  
 XX AC ABP67109;  
 XX DT 09-DEC-2002 (first entry)  
 XX DE Human polypeptide SEQ ID NO 830.  
 XX KW Human; nootropic; neuroprotective; cytostatic; dermatological; virucide;  
 XX KW immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerary;  
 XX KW antiparkinsonian; antiskinning; antianaemic; antiarthritic; cancer;  
 XX KW antirheumatic; hepatotropic; cerebroprotective; antiinflammatory;  
 XX KW antiallergic; antidiabetic; antitumor; anticonvulsant; antifungal;  
 XX KW antiparasitic; cardiant; immune disorder; cardiovascular disorder;  
 XX KW neurological disease; infection; nephrotropic; gene therapy; vaccine.  
 XX OS Homo sapiens.  
 XX PN US2002090672-A1.  
 XX PD 11-JUL-2002.  
 XX PF 17-JAN-2001; 2001US-0764853.  
 XX PR 31-JAN-2000; 2000US-179065P.  
 XX PR 04-FEB-2000; 2000US-180628P.  
 XX PR 28-JUN-2000; 2000US-214886P.  
 XX PR 07-JUL-2000; 2000US-216647P.  
 XX PR 07-JUL-2000; 2000US-216880P.  
 XX PR 11-JUL-2000; 2000US-217487P.  
 XX PR 11-JUL-2000; 2000US-217496P.  
 XX PR 14-JUL-2000; 2000US-218290P.  
 XX PR 26-JUL-2000; 2000US-220363P.  
 XX PR 14-AUG-2000; 2000US-220364P.  
 XX PR 14-AUG-2000; 2000US-224518P.  
 XX PR 14-AUG-2000; 2000US-224519P.  
 XX PR 14-AUG-2000; 2000US-225267P.  
 XX PR 14-AUG-2000; 2000US-225268P.  
 XX PR 14-AUG-2000; 2000US-225270P.  
 XX PR 14-AUG-2000; 2000US-225447P.  
 XX PR 14-AUG-2000; 2000US-225477P.  
 XX PR 14-AUG-2000; 2000US-225757P.  
 XX PR 22-AUG-2000; 2000US-225758P.  
 XX PR 30-AUG-2000; 2000US-226686P.  
 XX PR 01-SEP-2000; 2000US-228924P.  
 XX PR 01-SEP-2000; 2000US-229287P.

PR 01-SEP-2000; 2000US-229343P.  
 PR 01-SEP-2000; 2000US-229344P.  
 PR 01-SEP-2000; 2000US-229345P.  
 PR 05-SEP-2000; 2000US-229509P.  
 PR 08-SEP-2000; 2000US-229513P.  
 PR 08-SEP-2000; 2000US-231413P.  
 PR 21-SEP-2000; 2000US-234223P.  
 PR 21-SEP-2000; 2000US-234274P.  
 PR 25-SEP-2000; 2000US-234997P.  
 PR 27-SEP-2000; 2000US-235834P.  
 PR 29-SEP-2000; 2000US-236327P.  
 PR 29-SEP-2000; 2000US-236367P.  
 PR 29-SEP-2000; 2000US-236368P.  
 PR 29-SEP-2000; 2000US-236369P.  
 PR 29-SEP-2000; 2000US-236370P.  
 PR 02-OCT-2000; 2000US-236802P.  
 PR 02-OCT-2000; 2000US-237037P.  
 PR 02-OCT-2000; 2000US-237038P.  
 PR 02-OCT-2000; 2000US-237039P.  
 PR 02-OCT-2000; 2000US-237040P.  
 PR 13-OCT-2000; 2000US-239935P.  
 PR 20-OCT-2000; 2000US-240960P.  
 PR 20-OCT-2000; 2000US-241785P.  
 PR 20-OCT-2000; 2000US-241809P.  
 PR 01-NOV-2000; 2000US-244517P.  
 PR 17-NOV-2000; 2000US-245299P.  
 PR 08-DEC-2000; 2000US-251856P.  
 PR 08-DEC-2000; 2000US-251868P.  
 PR 08-DEC-2000; 2000US-251869P.  
 XX {ROSE/} ROSEN C A.  
 PA {RUBE/} RUBEN S M.  
 PA {BARA/} BARASH S C.  
 XX PI Rosen CA, Ruben SM, Barash SC;  
 XX WPI: 2002-681727/73.  
 XX N-PSDB; ABV84081.  
 XX Novel polypeptide useful for diagnosis, prognosis, prevention, and  
 PT treatment of immune, hyperproliferative, renal, respiratory,  
 PT cardiovascular, reproductive, endocrine, gastrointestinal and  
 PT neurological disorders -  
 XX Claim 11; SEQ ID NO 830; 369pp + Sequence Listing; English.  
 XX The invention relates to novel genes (ABV83682-ABV84101) and proteins  
 CC (ABP6710-ABP67129) useful for preventing, treating or ameliorating  
 CC medical conditions e.g. by protein or gene therapy. The genes are  
 CC isolated from a range of human tissues disclosed in the specification.  
 CC The nucleic acids, proteins, antibodies and (ant)agonists are useful  
 CC in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast  
 CC and ovarian cancer and other cancers of the adrenal gland, bone, bone  
 CC marrow, breast, gastrointestinal tract, liver, lung, or urogenital;  
 CC (b) immune disorders e.g. Addison's disease, allergies, autoimmune  
 CC haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's  
 CC disease, multiple sclerosis, rheumatoid arthritis and ulcerative  
 CC colitis; (c) cardiovascular disorders such as myocardial ischaemias;  
 CC (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and  
 CC epilepsy; and (f) infectious diseases such as viral, bacterial, fungal  
 CC and parasitic infections.  
 CC Note: The sequence data for this patent did not form part of the  
 CC printed specification, but was obtained in electronic format directly  
 CC from WIPO at ftp.wipo.int/pub/published\_pct\_sequences.  
 XX Sequence 281 AA;  
 SQ Query Match 41.2%; Score 269; DB 23; Length 281;  
 Best Local Similarity 100.0%; Pred.No. 3.6e-251;  
 Matches 269; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 222 ELEMGNHFFPEIRPGSGFLGSLKKLWYMSQVSLIERNAPDGLASLVELNLAHNNLSSL 281

b 13 ELEMSGNHFFPIRQSFHGLSSLLKLMWNSQVSLIERNAPDGLASVELNLAHNNLSSL 72  
y 282 PHDLFTPLVLELHLPNPNCCDILANLWLRREYIPNTSCCGRCHAPNMGRLV 341  
b 73 PHDLFTPLVLELHLPNPNCCDILANLWLRREYIPNTSCCGRCHAPNMGRLV 132  
y 342 EVDQASFOCSAPFIMDAPDLNISEGRMAELKCRTPPMSSVKWLLPNGTVLASHSRHPR 401  
b 133 EVDQASFOCSAPFIMDAPDLNISEGRMAELKCRTPPMSSVKWLLPNGTVLASHSRHPR 192  
y 402 SVLNDGTLNFSVLLSDTGYYTCWTVNAGNSAYLNVSTAEALNTSNYSFPTTVTET 461  
b 193 SVLNDGTLNFSVLLSDTGYYTCWTVNAGNSAYLNVSTAEALNTSNYSFPTTVTET 252  
y 462 TEISPEDTTRKYPVTTSTGYPAYTTS 490  
b 253 TEISPEDTTRKYPVTTSTGYPAYTTS 281

RESULT 29  
AY87135  
D AY87135 standard; Protein; 224 AA.  
X  
C AY87135;  
T 09-MAY-2000 (first entry)  
X Human secreted protein sequence SEQ ID NO:174.  
X Human; secreted protein; diagnosis; cytostatic; immunosuppressive;  
X antiinflammatory; neutropic; neuroprotective; antiallergic; cancer;  
X tumour; neurodegenerative disorder; immune system disorder; allergy;  
X foetal deficiency; blood disease; immune system disorder; arthritis;  
X autoimmune disease; hepatic disease; renal disease; inflammation;  
X Alzheimer's disease; behavioural disorder; schizophrenia; diabetes;  
X infection; AIDS; spinal cord injury; transplant rejection; diabetes;  
X asthma; sepsis; acne; psoriasis; cardiovascular disorder;  
X reproductive disorder; gastrointestinal disorder; respiratory disorder;  
X metabolic disorder; food additive; preservative.  
X Homo sapiens.  
X WO200004140-A1.  
X 27-JAN-2000.  
X 14-JUL-1999; 99WO-US15849.  
X 15-JUL-1998; 98US-0092921.  
X 15-JUL-1998; 98US-0092922.  
X 15-JUL-1998; 98US-0092956.  
X (HUMA-) HUMAN GENOME SCI INC.  
X Ruben SM, Komatsoulis G, Duan RD, Rosen CA, Moore PA, Shi Y;  
X Lafleur DW, Ebner R, Olsen HS, Brewer LA, Florence KA, Young PE;  
X Mucenski M, Endress GA, Soppet DR;  
X WPI; 2000-161128/14.  
X N-P5DB; AA298088.  
X New isolated human genes, useful for diagnosis and treatment of, e.g.  
X cancers, neurological or blood disorders -  
X  
X Claim 11; Page 426; 494pp; English.  
X The polynucleotide sequences given in AA298017 to AA298108 encode the  
X human secreted proteins given in AA298064 to AA298723. Human secreted  
X protein can have activities based on the tissues and cells the genes are  
X expressed in. Examples of activities include: cytostatic;  
X immunosuppressive; antiinflammatory; neutropic; neuroprotective; and  
X antiallergic. The polynucleotides and their corresponding secreted  
X polypeptides are useful for preventing, treating or ameliorating medical

CC conditions, e.g. by protein or gene therapy. Also pathological conditions  
CC can be diagnosed by determining the amount of the new polypeptides in a  
CC sample or by determining the presence of mutations in the new  
CC polynucleotides. Human secreted protein s and their polynucleotides can  
CC be used for developing products for the diagnosis or treatment of cancer,  
CC tumours, neurodegenerative disorders, developmental abnormalities and  
CC foetal deficiencies, blood disorders, diseases of the immune system,  
CC autoimmune diseases, hepatic and renal disease, inflammation,  
CC allergies, Alzheimer's disease, behavioural disorders, schizophrenia,  
CC osteoporosis, arthritis, infections, AIDS, spinal cord injuries,  
CC transplant rejection, diabetes, asthma, sepsis, acne, psoriasis,  
CC cardiovascular disorders, reproductive disorders, gastrointestinal  
CC disorders, respiratory disorders and metabolic disorders. The  
CC proteins or polynucleotides can also be used as food additives or  
CC preservatives. The proteins are also useful for identifying their  
CC binding partners. AA298008 to AA298016 and AA298063 are sequence used in  
CC the exemplification of the present invention.  
XX  
SQ Sequence 224 AA;  
Query Match 4.9%; Score 32; DB 21; Length 224;  
Best Local Similarity 100.0%; Pred. No. 3.2e-22;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 142 AFEYLSKRLRLNNPIESIPSYAFNRVPSL 173  
DB 153 AFEYLSKRLRLNNPIESIPSYAFNRVPSL 184  
RESULT 30  
AAE06112  
ID AAE06112 standard; Protein; 224 AA.  
AC AAE06112;  
XX 24-SEP-2001 (first entry)  
XX Human gene 3 encoded secreted protein HPG040, SEQ ID NO:174.  
XX Human; secreted protein; proliferative disorder; cancer; tumour; asthma;  
XX foetal abnormality; developmental abnormality; haematopoietic disorder;  
XX immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;  
XX Parkinson's disease; cognitive disorder; schizophrenia; skin disorder;  
XX psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder;  
XX inflammation; neurological disorder; Alzheimer's disease; food additive;  
XX angiogenic disorder; kidney disorder; gastrointestinal disorder; allergy;  
XX pregnancy-related disorder; endocrine disorder; infection; wound healing;  
XX cell culture; chemotaxis; vulnery; binding partner identification;  
XX gene therapy.  
XX Homo sapiens.  
XX  
XX Key Location/Qualifiers  
XX Peptide 1..37  
XX Protein 38..224 /label= Signal\_peptide  
XX Misc-difference 76 /label= Mature\_human\_secreted\_protein  
XX /label= Unknown  
XX /note= "Encoded by GAM"  
XX  
XX WO200151504-A1.  
XX  
XX 19-JUL-2001.  
XX  
XX 12-JAN-2001; 2001WO-US00911.  
XX  
XX 13-JAN-2000; 2000US-0482273.  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX Ruben SM, Komatsoulis GA, Duan DR, Rosen CA, Moore PA, Shi Y;  
XX Lafleur DW, Olsen HS, Brewer LA, Florence KA, Young PE, Soppet DR;  
PI



PI Endress GA, Muscenski M, Ebner R;  
XX WPI: 2001-425865/45.  
DR N-PSDB; AAD11701.  
XX  
XX Isolated nucleic acid molecule encoding a human secreted protein is  
PT used in preventing, treating or ameliorating a medical condition -  
PT  
XX Claim 11: Page 792-793; 864pp; English.  
XX  
XX AAD11630-AAD11721 represent cDNAs corresponding to 71 human secreted  
CC protein genes, and AAB06041-AAS08132 represent the proteins they encode.  
CC AAB06133-AAB06205 represent human secreted protein fragments.  
CC The secreted proteins and their genes are useful for preventing, treating  
CC or ameliorating medical conditions, e.g., by protein or gene therapy.  
CC Pathological conditions can be diagnosed by determining the amount of the  
CC new protein in a sample or by determining the presence of mutations in  
CC the new genes. Specific uses are described for each of the 71 genes,  
CC based on the tissues in which they are most highly expressed, and include  
CC developing products for the diagnosis or treatment of proliferative  
CC disorders, cancer, tumours, foetal and developmental abnormalities,  
CC haematopoietic disorders, diseases of the immune system, AIDS, autoimmune  
CC diseases (e.g., rheumatoid arthritis), inflammation, allergies,  
CC neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),  
CC cognitive disorders, schizophrenia, asthma, skin disorders (e.g.,  
CC psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,  
CC angiogenic disorders, kidney disorders, gastrointestinal disorders,  
CC pregnancy-related disorders, endocrine disorders, and infections. The  
CC proteins can also be used to aid wound healing and epithelial cell  
CC proliferation, to prevent skin aging due to sunburn, to maintain organs  
CC before transplantation, for supporting cell culture of primary tissues,  
CC to regenerate tissues, to identify their cognate ligands or binding  
CC partners, and in chemotaxis, and can be used as a food additive or  
CC preservative to modify storage properties. Antibodies specific for a  
CC protein of the invention can be used in alleviating symptoms associated  
CC with the disorders mentioned above, and in diagnostic immunoassays e.g.,  
CC radioimmunoassay or enzyme linked immunosorbent assay (ELISA).  
CC The present sequence represents a human secreted protein of  
XX the invention.  
XX  
XX Sequence 224 AA;  
SQ  
Query Match 4.9%; Score 32; DB 22; Length 224;  
Best Local Similarity 100.0%; Pred. No. 3.2e-22;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 142 APEYLSKRLRLWLNPNPIESIPSYAFNRVPSL 173  
Db 153 APEYLSKRLRLWLNPNPIESIPSYAFNRVPSL 184  
XX  
RESULT 31  
ABG33934  
ID ABG33934 standard; Protein; 224 AA.  
XX  
AC ABG33934;  
XX  
XX 15-JUL-2002 (first entry)  
XX  
XX Human secreted protein encoded by gene 3 #2.  
XX  
XX Human; secreted protein; gene therapy; immunosuppressive;  
XX antiarthritic; antirheumatic; antiproliferative; cytostatic; cardiant;  
XX vasotropic; cerebroprotective; nootropic; neuroprotective; antibacterial;  
XX virucide; fungicide; opthalmological; autoimmune disease; neoplasm;  
XX rheumatoid arthritis; hyperproliferative disorder; cardiac arrest;  
XX cardiovascular disorder; cerebrovascular disorder; cerebral ischaemia;  
XX angiogenesis; nervous system disorder; Alzheimer's disease; infection;  
XX ocular disorder; corneal infection; wound healing; skin aging;  
XX epithelial cell proliferation; food additive.  
XX  
XX Homo sapiens.  
OS  
XX

PN WO200226931-A2.  
XX  
PD 04-APR-2002.  
XX  
PF 24-SEP-2001; 2001WO-US29871.  
XX  
PR 25-SEP-2000; 2000US-234925P.  
PR 12-JAN-2001; 2001WO-US00911.  
XX  
XX (HUMA-) HUMAN GENOME SCI INC.  
XX  
XX Ruben SM, Komatsoulis G, Duan DR, Rosen CA, Moore PA, Shi Y;  
PI Lafleur DW, Olsen H, Brewer LA, Florence KA, Young FB, Soppet DR;  
XX Endress GA, Muscenski M, Ebner R;  
XX WPI: 2002-362489/39.  
DR N-PSDB; ABK69797.  
XX  
XX Novel 71 isolated secreted polypeptides and polynucleotides encoding  
PT the polypeptides, useful for treating Huntington's disease, sepsis,  
PT meningitis, thrombocytopaenia, haemolytic anaemia, rheumatoid arthritis,  
PT asthma -  
XX  
XX Claim 11: Page 1269-1270; 1478pp; English.  
XX  
XX The invention relates to an isolated nucleic acid molecule (or its  
CC fragment, homologue complement or allelic variant) encoding a human  
CC secreted protein (and its fragment, domain, epitope, variant, secreted  
CC form and species variant). Also included are a recombinant vector  
CC comprising the nucleic acid, a recombinant host cell comprising the  
CC vector, an antibody against the secreted protein, a recombinant host cell  
CC that expresses the secreted protein and a method of identifying a binding  
CC partner of the secreted protein. The nucleic acid and protein are used to  
CC prevent, diagnose, treat or ameliorate a medical condition in e.g.  
CC humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep  
CC for example autoimmune diseases e.g. rheumatoid arthritis,  
CC hyperproliferative disorders e.g. neoplasms of the breast, or liver,  
CC cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders  
CC e.g. cerebral ischaemia, angiogenesis caused by bacteria, viruses and fungi and  
CC Alzheimer's disease, infections caused by bacteria, viruses and fungi and  
CC ocular disorders e.g. corneal infection. The polypeptides can also be  
CC disorders are listed in the specification. The polypeptides can also be  
CC used to aid wound healing an epithelial cell proliferation, to prevent  
CC skin aging due to sunburn, to maintain organs before transplantation, for  
CC supporting cell culture of primary tissues, to regenerate tissues and in  
CC chemotaxis. The polypeptides can also be used as a food additive or  
CC preservative to increase or decrease storage capabilities. The present  
CC sequence represents a novel human secreted protein of the invention.  
XX  
XX Sequence 224 AA;  
SQ  
Query Match 4.9%; Score 32; DB 23; Length 224;  
Best Local Similarity 100.0%; Pred. No. 3.2e-22;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 142 APEYLSKRLRLWLNPNPIESIPSYAFNRVPSL 173  
Db 153 APEYLSKRLRLWLNPNPIESIPSYAFNRVPSL 184  
XX  
RESULT 32  
ABR48031  
ID ABR48031 standard; Protein; 224 AA.  
XX  
AC ABR48031;  
XX  
XX 12-JUN-2003 (first entry)  
XX  
XX Human secreted protein, SEQ ID 922.  
XX  
XX Cardiant; antiarrhythmic; antiarteriosclerotic; vasotropic; cytostatic;  
XX vulnary; antiinflammatory; nootropic; neuroprotective;  
XX antiparkinsonian; gene therapy; human; cardiovascular disorder.  
XX

XX Homo sapiens.  
 XX WO200295010-A2.  
 XX 28-NOV-2002.  
 XX 19-MAR-2002; 2002WO-US09785.  
 XX 21-MAR-2001; 2001US-277340P.  
 XX 19-JUL-2001; 2001US-306171P.  
 XX 13-NOV-2001; 2001US-331287P.  
 XX (HUMA-) HUMAN GENOME SCI INC.  
 XX Rosen CA, Ruben SM;  
 XX WPI; 2003-129429/12.  
 XX Novel human secreted proteins, useful for detecting, preventing,  
 XX diagnosing, prognosticating, treating and/or ameliorating  
 XX cardiovascular disorders such as arrhythmia -  
 XX Claim 13; SEQ ID 922; 1881pp; English.  
 XX The present invention relates to novel human secreted proteins  
 XX (ABR47633-ABR48145) and their coding sequences (ACC50344-ACC50856). The  
 XX proteins and their coding sequences are useful for the preparation of a  
 XX diagnostic or pharmaceutical composition for diagnosing or treating a  
 XX cardiovascular disorder (e.g., arrhythmia, tachycardia, cardiac arrest,  
 XX coronary arteriosclerosis and myocardial ischaemia), neural disorders,  
 XX immune system disorders, muscular disorders, reproductive disorders,  
 XX gastrointestinal disorders, pulmonary disorders, renal disorders,  
 XX proliferative disorders and/or cancerous diseases and conditions, for  
 XX wound healing and epithelial cell proliferation, to treat inflammation or  
 XX infection, for treating thrombosis and arteriosclerosis, for treating or  
 XX preventing neural damage which occurs in neuronal disorders or  
 XX neurodegenerative conditions such as Alzheimer's disease and Parkinson's  
 XX disease, to enhance bone and periodontal regeneration and aid in tissue  
 XX transplants or bone grafts, to prevent skin aging or hair loss, to  
 XX stimulate growth and differentiation of haematopoietic cells and bone  
 XX marrow cells when used in combination with other cytokines, to maintain  
 XX organs before transplantation or for supporting cell culture of primary  
 XX tissues, to increase or decrease differentiation or proliferation of  
 XX embryonic stem cells, or to modulate mammalian characteristics or  
 XX metabolism.  
 XX Note: The sequence data for this patent was published in electronic  
 XX format and is available from WIPO at  
 XX ftp.wipo.int/pub/published\_pct\_sequences.  
 XX Sequence 224 AA;  
 XX Query Match 4.9%; Score 32; DB 24; Length 224;  
 XX Best Local Similarity 100.0%; Pred. No. 3.2e-22; Indels 0; Gaps 0;  
 XX Matches 32; Conservative 0; Mismatches 0;  
 XX Y 142 AFEYLSKRLRLNRPPIESIPSYAFNRVPSL 173  
 XX 153 AFEYLSKRLRLNRPPIESIPSYAFNRVPSL 184  
 XX  
 XX RESULT 33  
 XX BR47760  
 XX D ABR47760 standard; Protein; 295 AA.  
 XX X ABR47760;  
 XX C  
 XX T 12-JUN-2003 (first entry)  
 XX T Human secreted protein, SEQ ID 651.  
 XX E  
 XX X Cardiant; antiarrhythmic; antiarteriosclerotic; vasotropic; cytostatic;  
 XX W vulnerary; antiinflammatory; nootropic; neuroprotective;

KW antiparkinsonian; gene therapy; human; cardiovascular disorder.  
 XX Homo sapiens.  
 XX WO200295010-A2.  
 XX 28-NOV-2002.  
 XX 19-MAR-2002; 2002WO-US09785.  
 XX 21-MAR-2001; 2001US-277340P.  
 XX 19-JUL-2001; 2001US-306171P.  
 XX 13-NOV-2001; 2001US-331287P.  
 XX (HUMA-) HUMAN GENOME SCI INC.  
 XX Rosen CA, Ruben SM;  
 XX WPI; 2003-129429/12.  
 XX Novel human secreted proteins, useful for detecting, preventing,  
 XX diagnosing, prognosticating, treating and/or ameliorating  
 XX cardiovascular disorders such as arrhythmia -  
 XX Claim 13; SEQ ID 651; 1881pp; English.  
 XX The present invention relates to novel human secreted proteins  
 XX (ABR47633-ABR48145) and their coding sequences (ACC50344-ACC50856). The  
 XX proteins and their coding sequences are useful for the preparation of a  
 XX diagnostic or pharmaceutical composition for diagnosing or treating a  
 XX cardiovascular disorder (e.g., arrhythmia, tachycardia, cardiac arrest,  
 XX coronary arteriosclerosis and myocardial ischaemia), neural disorders,  
 XX immune system disorders, muscular disorders, reproductive disorders,  
 XX gastrointestinal disorders, pulmonary disorders, renal disorders,  
 XX proliferative disorders and/or cancerous diseases and conditions, for  
 XX wound healing and epithelial cell proliferation, to treat inflammation or  
 XX infection, for treating thrombosis and arteriosclerosis, for treating or  
 XX preventing neural damage which occurs in neuronal disorders or  
 XX neurodegenerative conditions such as Alzheimer's disease and Parkinson's  
 XX disease, to enhance bone and periodontal regeneration and aid in tissue  
 XX transplants or bone grafts, to prevent skin aging or hair loss, to  
 XX stimulate growth and differentiation of haematopoietic cells and bone  
 XX marrow cells when used in combination with other cytokines, to maintain  
 XX organs before transplantation or for supporting cell culture of primary  
 XX tissues, to increase or decrease differentiation or proliferation of  
 XX embryonic stem cells, or to modulate mammalian characteristics or  
 XX metabolism.  
 XX Note: The sequence data for this patent was published in electronic  
 XX format and is available from WIPO at  
 XX ftp.wipo.int/pub/published\_pct\_sequences.  
 XX Sequence 295 AA;  
 XX Query Match 4.9%; Score 32; DB 24; Length 295;  
 XX Best Local Similarity 100.0%; Pred. No. 4.2e-22; Indels 0; Gaps 0;  
 XX Matches 32; Conservative 0; Mismatches 0;  
 XX Y 142 AFEYLSKRLRLNRPPIESIPSYAFNRVPSL 173  
 XX 137 AFEYLSKRLRLNRPPIESIPSYAFNRVPSL 168  
 XX  
 XX RESULT 34  
 XX AAY87066  
 XX ID AAY87066 standard; Protein; 302 AA.  
 XX X AAY87066;  
 XX C  
 XX T 09-MAY-2000 (first entry)  
 XX T Human secreted protein sequence SEQ ID NO:105.  
 XX DE Human; secreted protein; diagnosis; cytostatic; immunosuppressive;

antiinflammatory; nootropic; neuroprotective; antiallergic; cancer;  
 tumour; neurodegenerative disorder; developmental abnormality; allergy;  
 foetal deficiency; blood disorder; immune system disorder; arthritis;  
 autoimmune disease; hepatic disease; renal disease; inflammation;  
 Alzheimer's disease; behavioural disorder; schizophrenia; osteoporosis;  
 infection; AIDS; spinal cord injury; transplant rejection; diabetes;  
 asthma; sepsis; acne; psoriasis; cardiovascular disorder;  
 reproductive disorder; gastrointestinal disorder; respiratory disorder;  
 metabolic disorder; food additive; preservative.  
 Homo sapiens.  
 KW WC200004140-A1.  
 XX PD 27-JAN-2000.  
 XX PF 14-JUL-1999; 99WO-US15849.  
 XX PR 15-JUL-1998; 98US-0092921.  
 XX PR 15-JUL-1998; 98US-0092922.  
 XX PR 15-JUL-1998; 98US-0092956.  
 XX PA (HUMA-) HUMAN GENOME SCI INC.  
 XX PI Ruben SM, Komatsoulis G, Duan RD, Rosen CA, Moore PA, Shi Y;  
 PI Lafleur DW, Ebner R, Olsen HS, Brewer LA, Florence KA, Young PE;  
 PI Mucenski M, Endress GA, Soppet DR;  
 XX WPI: 2000-161128/14.  
 XX DR N-PSDB; AA298019.  
 XX PT New isolated human genes, useful for diagnosis and treatment of, e.g.  
 XX PT cancers, neurological or blood disorders -  
 XX PS Claim 11; Page 372-373; 494pp; English.  
 CC The polynucleotide sequences given in AA298017 to AA298108 encode the  
 CC human secreted proteins given in AA297064 to AA297223. Human secreted  
 CC protein can have activities based on the tissues and cells the genes are  
 CC expressed in. Examples of activities include: cytostatic;  
 CC immunosuppressive; antiinflammatory; nootropic; neuroprotective; and  
 CC antiallergic. The polynucleotides and their corresponding secreted  
 CC polypeptides are useful for preventing, treating or ameliorating medical  
 CC conditions, e.g. by protein or gene therapy. Also pathological conditions  
 CC can be diagnosed by determining the amount of the new polypeptides in a  
 CC sample or by determining the presence of mutations in the new  
 CC polynucleotides. Human secreted protein s and their polynucleotides can  
 CC be used for developing products for the diagnosis or treatment of cancer,  
 CC tumours, neurodegenerative disorders, developmental abnormalities and  
 CC foetal deficiencies, blood disorders, diseases of the immune system,  
 CC autoimmune diseases, hepatic and renal disease, inflammation,  
 CC allergies, Alzheimer's disease, behavioural disorders, schizophrenia,  
 CC osteoporosis, arthritis, infections, AIDS, spinal cord injuries,  
 CC transplant rejection, diabetes, asthma, sepsis, acne, psoriasis,  
 CC cardiovascular disorders, reproductive disorders, gastrointestinal  
 CC disorders, respiratory disorders and metabolic disorders. The  
 CC proteins or polynucleotides can also be used as food additives or  
 CC preservatives. The proteins are also useful for identifying their  
 CC binding partners. AA298008 to AA298016 and AA298063 are sequence used in  
 CC the exemplification of the present invention.  
 XX SQ Sequence 302 AA;  
 Query Match 4.9%; Score 32; DB 21; Length 302;  
 Best Local Similarity 100.0%; Pred. No. 4,3e-22;  
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 142 AFEYLSKRLRLWLNNTIESIPSAFNRVPSL 173  
 DB 153 AFEYLSKRLRLWLNNTIESIPSAFNRVPSL 184

RESULT 35

AAE06043  
 ID AAE06043 standard; Protein; 302 AA.  
 XX AC AAE06043;  
 XX DT 24-SEP-2001 (first entry)  
 XX DE Human gene 3 encoded secreted protein HEPG040, SEQ ID NO:105.  
 XX KW Human; secreted protein; proliferative disorder; cancer; tumour; asthma;  
 KW foetal abnormality; developmental abnormality; haematopoietic disorder;  
 KW immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;  
 KW Parkinson's disease; cognitive disorder; schizophrenia; skin disorder;  
 KW psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder;  
 KW inflammation; neurological disorder; Alzheimer's disease; food additive;  
 KW angiogenic disorder; kidney disorder; gastrointestinal disorder; allergy;  
 KW pregnancy-related disorder; endocrine disorder; infection; wound healing;  
 KW cell culture; chemotaxis; vulnery; binding partner identification;  
 KW gene therapy.  
 XX OS Homo sapiens.  
 XX FH Key Location/Qualifiers  
 FT Peptide 1..37  
 FT /label= Signal\_peptide  
 FT Protein 38..302  
 FT /label= Mature\_human\_secreted\_protein  
 XX W0200151504-A1.  
 XX PD 19-JUL-2001.  
 XX PF 12-JAN-2001; 2001WO-US00911.  
 XX PR 13-JAN-2000; 2000US-0482273.  
 XX PA (HUMA-) HUMAN GENOME SCI INC.  
 XX PI Ruben SM, Komatsoulis GA, Duan DR, Rosen CA, Moore PA, Shi Y;  
 PI Lafleur DW, Olsen HS, Brewer LA, Florence KA, Young PE, Soppet DR;  
 PI Endress GA, Mucenski M, Ebner R;  
 XX WPI: 2001-425865/45.  
 XX DR N-PSDB; AAD11632.  
 XX PT Isolated nucleic acid molecule encoding a human secreted protein is  
 XX PT used in preventing, treating or ameliorating a medical condition -  
 XX PS Claim 11; Page 739-740; 864pp; English.  
 CC AAD11630-AA011721 represent cDNAs corresponding to 71 human secreted  
 CC protein genes, and AAE06041-AAE06132 represent the proteins they encode.  
 CC AAE06133-AAE06205 represent human secreted protein fragments.  
 CC The secreted proteins and their genes are useful for preventing, treating  
 CC or ameliorating medical conditions, e.g., by protein or gene therapy.  
 CC Pathological conditions can be diagnosed by determining the amount of the  
 CC new protein in a sample or by determining the presence of mutations in  
 CC the new genes. Specific uses are described for each of the 71 genes,  
 CC based on the tissues in which they are most highly expressed, and include  
 CC developing products for the diagnosis or treatment of proliferative  
 CC disorders, cancer, tumours, foetal and developmental abnormalities,  
 CC haematopoietic disorders, diseases of the immune system, AIDS, autoimmune  
 CC diseases (e.g., rheumatoid arthritis), inflammation, allergies, disease),  
 CC neurological disorders (e.g., Alzheimer's disease, Parkinson's disease),  
 CC cognitive disorders, schizophrenia, asthma, skin disorders (e.g.,  
 CC psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,  
 CC angiogenic disorders, kidney disorders, gastrointestinal disorders,  
 CC pregnancy-related disorders, endocrine disorders, and infectious. The  
 CC proteins can also be used to aid wound healing and epithelial cell  
 CC proliferation, to prevent skin aging due to sunburn, to maintain organs  
 CC before transplantation, for supporting cell culture of primary tissues,  
 CC to regenerate tissues, to identify their cognate ligands or binding  
 CC partners, and in chemotaxis, and can be used as a food additive or

preservative to modify storage properties. Antibodies specific for a protein of the invention can be used in alleviating symptoms associated with the disorders mentioned above, and in diagnostic immunoassays e.g., radioimmunoassay or enzyme linked immunosorbent assay (ELISA). The present sequence represents a human secreted protein of the invention.

Sequence 302 AA;

Query Match 4.9%; Score 32; DB 22; Length 302;  
Best Local Similarity 100.0%; Pred. No. 4.3e-22;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

142 APEYLSKRLRLWLNPNPIESIPSYAFNEVPSL 173  
|||||  
153 APEYLSKRLRLWLNPNPIESIPSYAFNEVPSL 184

RESULT 36  
ABG33865  
ABG33865 standard; Protein; 302 AA.

ABG33865;

15-JUL-2002 (first entry)

Human secreted protein encoded by gene 3 #1.

Human; secreted protein; Gene therapy; immunosuppressive;  
antiarthritic; antirheumatic; antiproliferative; cytostatic; cardiant;  
vasotropic; cerebroprotective; neutropic; neuroprotective; antibacterial;  
virucide; fungicide; opthalmological; autoimmune disease; neoplasm;  
rheumatoid arthritis; hyperproliferative disorder; cardiac arrest;  
cardiovascular disorder; cerebrovascular disorder; cerebral ischaemia;  
angiogenesis; nervous system disorder; Alzheimer's disease; infection;  
ocular disorder; corneal infection; wound healing; skin aging;  
epithelial cell proliferation; food additive.

Homo sapiens.

WO2002269311-A2.

04-APR-2002.

24-SEP-2001; 2001WO-US29871.

25-SEP-2000; 2000US-234925P.

12-JAN-2001; 2001WO-US00911.

(HUMA-) HUMAN GENOME SCI INC.

Ruben SM, Komatsoulis G, Duan DR, Rosen CA, Moore PA, Shi Y;  
Lafleur DW, Olsen H, Brewer LA, Florence KA, Young FB, Soppet DR;  
Endress GA, Mucenski M, Ebner R;

WPI; 2002-362489/39.

N-PSDB; ABK69728.

Novel 71 isolated secreted polypeptides and polynucleotides encoding the polypeptides, useful for treating Huntington's disease, sepsis, meningitis, thrombocytopaenia, haemolytic anaemia, rheumatoid arthritis, asthma

Claim 11; Page 1221-1222; 1478pp; English.

The invention relates to an isolated nucleic acid molecule (or its fragment, homologue complement or allelic variant) encoding a human secreted protein (and its fragment, domain, epitope, variant, secreted form and species variant). Also included are a recombinant vector comprising the nucleic acid, a recombinant host cell comprising the vector, an antibody against the secreted protein, a recombinant host cell that expresses the secreted protein and a method of identifying a binding partner of the secreted protein. The nucleic acid and protein are used to

prevent, diagnose, treat or ameliorate a medical condition in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chickens or sheep for example autoimmune diseases e.g. rheumatoid arthritis, hyperproliferative disorders e.g. neoplasms of the breast, or liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular disorders e.g. cerebral ischaemia, angiogenesis, nervous system disorders e.g. Alzheimer's disease, infections caused by bacteria, viruses and fungi and ocular disorders e.g. corneal infection. Many other diseases and disorders are listed in the specification. The polypeptides can also be used to aid wound healing an epithelial cell proliferation, to prevent skin aging due to sunburn, to maintain organs before transplantation, for supporting cell culture of primary tissues, to regenerate tissues and in chemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease storage capabilities. The present sequence represents a novel human secreted protein of the invention.

Sequence 302 AA;

Query Match 4.9%; Score 32; DB 23; Length 302;  
Best Local Similarity 100.0%; Pred. No. 4.3e-22;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 APEYLSKRLRLWLNPNPIESIPSYAFNEVPSL 173  
|||||

Db 153 APEYLSKRLRLWLNPNPIESIPSYAFNEVPSL 184  
|||||

RESULT 37

ABR48030

ID ABR48030 standard; Protein; 302 AA.

AC ABR48030;

DF 12-JUN-2003 (first entry)

DE Human secreted protein, SEQ ID 921.

Cardiant; antiarrhythmic; antiarteriosclerotic; vasotropic; cytostatic; vulnery; antiinflammatory; neutropic; neuroprotective;  
antiparkinsonian; gene therapy; Human; cardiovascular disorder.

Homo sapiens.

WO200295010-A2.

28-NOV-2002.

19-MAR-2002; 2002WO-US09785.

21-MAR-2001; 2001US-277340P.

19-JUL-2001; 2001US-306171P.

13-NOV-2001; 2001US-331287P.

(HUMA-) HUMAN GENOME SCI INC.

Rosen CA, Ruben SM;

WPI; 2003-129429/12.

Novel human secreted proteins, useful for detecting, preventing, diagnosing, prognosticating, treating and/or ameliorating cardiovascular disorders such as arrhythmia

Claim 13; SEQ ID 921; 1881pp; English.

The present invention relates to novel human secreted proteins (ABR47633-ABR48145) and their coding sequences (ACC50344-ACC50856). The proteins and their coding sequences are useful for the preparation of a diagnostic or pharmaceutical composition for diagnosing or treating a cardiovascular disorder (e.g., arrhythmia, tachycardia, cardiac arrest, coronary arteriosclerosis and myocardial ischaemia), neural disorders, immune system disorders, muscular disorders, reproductive disorders, gastrointestinal disorders, pulmonary disorders, renal disorders,

proliferative disorders and/or cancerous diseases and conditions, for wound healing and epithelial cell proliferation, to treat inflammation or infection, for treating thrombosis and arteriosclerosis, for treating or preventing neural damage which occurs in neuronal disorders or neurodegenerative conditions such as Alzheimer's disease and Parkinson's disease, to enhance bone and periodontal regeneration and aid in tissue transplants or bone grafts, to prevent skin aging or hair loss, to stimulate growth and differentiation of haematopoietic cells and bone marrow cells when used in combination with other cytokines, to maintain organs before transplantation or for supporting cell culture of primary tissues, to increase or decrease differentiation or proliferation of embryonic stem cells, or to modulate mammalian characteristics or metabolism.

Note: The sequence data for this patent was published in electronic format and is available from WIPO at [ftp.wipo.int/pub/published\\_pct\\_sequences](http://ftp.wipo.int/pub/published_pct_sequences).

XQ Sequence 302 AA;

Query Match 4.9%; Score 32; DB 24; Length 302;  
Best Local Similarity 100.0%; Pred. No. 4.3e-22;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2Y 142 AFEYLSKRLRLWLNPNPIESIPSYAFNRVPSL 173  
|||||  
2B 153 AFEYLSKRLRLWLNPNPIESIPSYAFNRVPSL 184  
|||||

RESULT 38

ABG97967  
ID ABG97967 standard; Protein: 634 AA.

XK AC ABG97967;

XJ 07-JAN-2003 (first entry)

XK Human nervous system leucine rich repeat protein (HLRRNS1) #1.

Leucine rich repeat; nervous system; human; neural disorder; apoptosis; renal disorder; immune disorder; arthritis; asthma; AIDS; acquired immunodeficiency syndrome; rheumatoid arthritis; haematopoietic disorder; metabolic disorder; reproductive disorder; pulmonary disease; cardiovascular disease; hyperproliferative disorder; neurodegenerative disease; Alzheimer's disease; Parkinson's disease; Huntington's disease; developmental disorder; autoimmune disease; Addison's disease; haemolytic anaemia; antiphospholipid syndrome; allergic encephalomyelitis; gene therapy.

XK Homo sapiens.

XK WO200274959-A2.

XK 26-SEP-2002.

XK 20-DEC-2001; 2001WO-US50457.

XK 03-JAN-2001; 2001US-259479P.

XK 09-JAN-2001; 2001US-260616P.

XK (BRIM ) BRISTOL-MYERS SQUIBB CO.

XK Ramanathan C, Feder J, Mintier G;

XK WPI: 2002-750554/81.

XK P-PSDB; ABG97967.

New HLRRNS1 nucleic acids and polypeptides, useful for preventing, treating, or ameliorating e.g. renal disorder, immune, haematopoietic, metabolic, reproductive, pulmonary, cardiovascular or autoimmune diseases.

XK Claim 5; Fig 1A-C; 415pp; English.

The invention describes nucleic acids encoding human leucine-rich repeat containing proteins expressed in nervous system tissues, HLRRNS1. The HLRRNS1 polypeptide or the polynucleotide is useful for preventing, treating, or ameliorating a neural disorder or a disorder related to aberrant apoptosis modulation (either directly or indirectly), renal disorder, immune disorder (e.g. arthritis, asthma, acquired immunodeficiency syndrome (AIDS) or rheumatoid arthritis), haematopoietic, metabolic, reproductive, pulmonary or cardiovascular diseases, hyperproliferative disorders, neurodegenerative diseases (e.g. Alzheimer's disease, Parkinson's disease or Huntington's disease), developmental disorders, non-infectious disorders, nervous system diseases and/or disorders, and autoimmune diseases (e.g. Addison's disease, haemolytic anaemia, antiphospholipid syndrome, or allergic encephalomyelitis). The polynucleotides are also useful as chromosome markers, for chromosome identification, gene therapy, and in identifying organisms from minute biological samples. This is the amino acid sequence of a leucine-rich repeat containing protein.

XK Sequence 634 AA;

Query Match 4.9%; Score 32; DB 23; Length 634;  
Best Local Similarity 100.0%; Pred. No. 8.4e-22;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 AFEYLSKRLRLWLNPNPIESIPSYAFNRVPSL 173  
|||||  
DB 153 AFEYLSKRLRLWLNPNPIESIPSYAFNRVPSL 184  
|||||

RESULT 39

AAU91341  
ID AAU91341 standard; Protein: 656 AA.

XK AC AAU91341;

XJ 18-JUN-2002 (first entry)

XK Human novel secreted protein LP223 (b).

Human; secreted protein; cancer; autoimmune disease; arthritis; osteoporosis; Alzheimer's disease; Parkinson's disease; meningitis; encephalitis; neoplasia; trauma; ischaemia; infarction; mania; stroke; cardiovascular disease; atherosclerosis; sepsis; anaemia; rheumatoid arthritis; hypothyroidism; allergic response; liver failure; multiple sclerosis; haemorrhage; paranoia; obsessive compulsive disorder; autism; panic disorder; learning disability; feeding disorder; sleep pattern disorder; balance; perception; Th1-dependent insultitis; adult respiratory distress syndrome; ARDS.

XK Homo sapiens.

XK WO200214358-A2.

XK 21-FEB-2002.

XK 30-JUL-2001; 2001WO-US21124.

XK 11-AUG-2000; 2000US-224642P.

XK 19-OCT-2000; 2000US-241779P.

XK (BLIL ) LILLY &amp; CO ELI.

XK Edmonds BT, Micanovic R, Ou W, Su EW, Tschang SR, Wang H;

XK WPI: 2002-304057/34.

XK N-PSDB; ABK62093.

Novel polypeptides and polynucleotides of secreted proteins useful for treating various diseases such as multiple sclerosis, cancer, Parkinson's disease, osteoporosis, Alzheimer's disease and Parkinson's disease.

XK Claim 9; Page 231-234; 235pp; English.

XX The invention relates to a novel human secreted polypeptide having  
 XX sequence 90% identical to the polypeptide sequences of LP105, LP061,  
 XX LP224, LP240, LP239(a), LP243(a), LP243(b), LP253, LP253(a),  
 XX LP252, LP239(b), LP253(a), LP253(b), LP254, LP254(a), LP254(b),  
 XX or LP223(b). Also included are the nucleic acids encoding the LP  
 XX proteins (including complement, fragments encoding mature forms of the  
 XX polypeptide or variant), a vector comprising the nucleic acid, a  
 XX host cell comprising the vector, the preparation of the protein,  
 XX an anti-LP antibody, ant/agonists of LP and anti-LP-encoding mRNA  
 XX ribozymes. The secreted protein or its agonist is useful in the  
 XX manufacture of a medicament for treating a mammal suffering from a  
 XX disease (and in diagnosis), condition or disorder associated with  
 XX aberrant levels of the secreted protein e.g. cancer, autoimmune diseases,  
 XX arthritis, osteoporosis, Alzheimer's disease, Parkinson's disease,  
 XX meningitis, encephalitis, neoplasia, trauma, ischaemia and infarction,  
 XX mania, stroke, cardiovascular disease, atherosclerosis, rheumatoid  
 XX arthritis, hypothyroidism, anaemia, sepsis, allergic responses, multiple  
 XX sclerosis, liver failure, haemorrhages, paranoia, obsessive compulsive  
 XX disorder, autism, panic disorder, learning disabilities, ALS  
 XX (amyotrophic lateral sclerosis) psychoses, disorders in feeding,  
 XX sleep patterns, balance, and perception, Thi-dependent insulinitis, adult  
 XX respiratory distress syndrome (ARDS). The secreted protein is further  
 XX useful for identifying compounds that bind to the secreted protein. The  
 XX present sequence represents a novel secreted protein of the invention.  
 XX  
 XX Sequence 656 AA;

Query Match 4.9%; Score 32; DB 23; Length 656;  
 Best Local Similarity 100.0%; Pred. No. 8.7e-22;  
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 APEYLSKRLRLNPNPIESIPSYAFNRVPSL 173  
 DB 153 APEYLSKRLRLNPNPIESIPSYAFNRVPSL 184

RESULT 40  
 AAEL13006  
 ID AAEL13006 standard; Protein: 713 AA.

AAEL13006;  
 28-JAN-2002 (first entry)  
 Human leucine-rich repeat (LRR) family member protein.  
 Human; leucine-rich repeat; LRR; 31939 protein; therapy;  
 cell proliferation; differentiation disorder; cancer; neuronal disorder;  
 neurological disorder; demyelinating disease; multiple sclerosis;  
 degenerative disease; Alzheimer's disease; Huntington's disease;  
 spino-cerebellar degeneration; nervous system; bone disorder;  
 osteoporosis; immune disorder; rheumatoid arthritis; diabetes mellitus;  
 cardiovascular disorder; liver disorder; viral disease; pain;  
 metabolic disorder; chromosomal mapping; tissue typing; forensic biology;  
 cytostatic; neurotropic; neuroprotective; anticonvulsant; osteopathic;  
 antirheumatic; antiarthritic; virucide; analgesic.  
 Homo sapiens.

Key	Location/Qualifiers
Peptide	1..38
Protein	/label= Signal_peptide
Domain	39..713
Domain	/note= "Mature human 31939 protein"
Domain	56..85
Domain	/label= N-terminal_LRR_domain
Domain	87..110
Domain	/label= LRR_domain
Domain	111..134
Domain	/label= LRR_domain
Domain	135..158
Domain	/label= LRR_domain

Domain	159..182
FT	/label= LRR_domain
FT	183..207
FT	/label= LRR_domain
FT	208..229
FT	/label= LRR_domain
FT	230..253
FT	/label= LRR_domain
FT	254..277
FT	/label= LRR_domain
FT	278..301
FT	/label= LRR_domain
FT	311..362
FT	/label= C-terminal_LRR_domain
FT	378..438
FT	/label= Immunoglobulin_domain
XX	WO200175105-A2.
PN	11-OCT-2001.
XX	30-MAR-2001; 2001WO-US10380.
XX	31-MAR-2000; 2000US-193919P.
XX	(WILL-) MILLENNIUM PHARM INC.
XX	Glucksmann MA;
XX	WPI; 2001-662974/76.
DR	N-PSDB; AAD21287.
XX	New polypeptide useful for treating cancer, multiple sclerosis, PT Alzheimer's disease, osteoporosis, arthritis, and metabolic and liver PT disorders comprises the 31939 polypeptide belonging to the leucine-rich PT repeat family
XX	Claim 9; Fig 1A-1C; 117pp; English.
XX	The present sequence is a human leucine-rich repeat (LRR) family CC member (referred as 31939) protein. The 31939 protein is useful for CC treating cell proliferative or differentiative disorder, e.g., cancer CC disorders or neuronal disorders, neurological disorders, demyelinating CC diseases such as multiple sclerosis, degenerative diseases such as CC Alzheimer's disease and Huntington's disease, spino-cerebellar CC degenerations, disorders of the central or peripheral nervous system, CC bone disorders such as osteoporosis, immune disorders such as CC rheumatoid arthritis, diabetes mellitus, cardiovascular disorders, CC liver disorders, viral diseases, pain or metabolic disorders. They CC are also useful as markers of disorders or disease states. or for CC precursors or markers for the predisposition of disease states. They CC are useful in screening and detection assays such as chromosomal CC mapping, tissue typing, and forensic biology.
XX	Sequence 713 AA;
QY	Query Match 4.9%; Score 32; DB 22; Length 713; Best Local Similarity 100.0%; Pred. No. 9.3e-22; Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DB	142 APEYLSKRLRLNPNPIESIPSYAFNRVPSL 173 153 APEYLSKRLRLNPNPIESIPSYAFNRVPSL 184
RESULT 41	
ID	ABG97991 standard; Protein: 713 AA.
XX	ABG97991
AC	ABG97991;
XX	07-JAN-2003 (first entry)
DT	
XX	

DE Human nervous system leucine rich repeat protein (HLRRNS1) #2.  
 XX Leucine rich repeat; nervous system; human; neural disorder; apoptosis;  
 KW renal disorder; immune disorder; arthritis; asthma; AIDS;  
 KW acquired immunodeficiency syndrome; rheumatoid arthritis;  
 KW haematopoietic disorder; metabolic disorder; reproductive disorder;  
 KW pulmonary disease; cardiovascular disease; hyperproliferative disorder;  
 KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;  
 KW Huntington's disease; developmental disorder; autoimmune disease;  
 KW Addison's disease; haemolytic anaemia; antiphospholipid syndrome;  
 KW allergic encephalomyelitis; gene therapy.  
 XX Homo sapiens.  
 OS  
 XX  
 PN WO200274959-A2.  
 XX  
 PD 26-SEP-2002.  
 XX  
 PF 20-DEC-2001; 2001WO-US50457.  
 XX  
 PP 03-JAN-2001; 2001US-259479P.  
 XX  
 PR 09-JAN-2001; 2001US-260616P.  
 XX  
 PS (BRIM ) BRISTOL-MYERS SQUIBB CO.  
 PA  
 PI Ramanathan C, Feder J, Mintier G;  
 XX  
 PI WPI; 2002-750554/81.  
 XX  
 DR N-PSDB; ABX03577.  
 DR  
 DR  
 DR  
 PT New HLRRNS1 nucleic acids and polypeptides, useful for preventing,  
 PT treating, or ameliorating e.g. renal disorder, immune, haematopoietic,  
 PT metabolic, reproductive, pulmonary, cardiovascular or autoimmune  
 PT diseases  
 XX  
 XX  
 PS Claim 5; Fig 4A-C; 415pp; English.  
 PS  
 CC The invention describes nucleic acids encoding human leucine-rich repeat  
 CC containing proteins expressed in nervous system tissues, HLRRNS1. The  
 CC HLRRNS1 polypeptide or the polynucleotide is useful for preventing,  
 CC treating, or ameliorating a neural disorder or a disorder related to  
 CC aberrant apoptosis modulation (either directly or indirectly), renal  
 CC disorder, immune disorder (e.g. arthritis, asthma, acquired  
 CC immunodeficiency syndrome (AIDS) or rheumatoid arthritis),  
 CC haematopoietic, metabolic, reproductive, pulmonary or cardiovascular  
 CC diseases, hyperproliferative disorders, neurodegenerative diseases  
 CC (e.g. Alzheimer's disease, Parkinson's disease or Huntington's  
 CC disease), developmental disorders, non-infections disorders, nervous  
 CC system diseases and/or disorders, and autoimmune diseases (e.g.  
 CC Addison's disease, haemolytic anaemia, antiphospholipid syndrome, or  
 CC allergic encephalomyelitis). The polynucleotides are also useful as  
 CC chromosome markers, for chromosome identification, gene therapy, and in  
 CC identifying organisms from minute biological samples. This is the amino  
 CC acid sequence of a leucine-rich repeat containing protein.  
 XX  
 SQ Sequence 713 AA;  
 Query Match 4.9%; Score 32; DB 23; Length 713;  
 Best Local Similarity 100.0%; Pred. No. 9.3e-22;  
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 142 AFEYLSKRLRLWLRNPIESIPSYAFNRVPSL 173  
 |||||  
 Db 153 AFEYLSKRLRLWLRNPIESIPSYAFNRVPSL 184  
 RESULT 42  
 AAU91335  
 ID AAU91335 standard; Protein; 713 AA.  
 XX  
 AC AAU91335;  
 XX  
 DT 18-JUN-2002 (first entry)

XX Human novel secreted protein LP223(a).  
 DE  
 XX  
 KW Human; secreted protein; cancer; autoimmune disease;  
 KW arthritis; osteoporosis; Alzheimer's disease; Parkinson's disease;  
 KW meningitis; encephalitis; neoplasia; trauma; ischaemia; infarction;  
 KW mania; stroke; cardiovascular disease; atherosclerosis; sepsis; anaemia;  
 KW rheumatoid arthritis; hypothyroidism; allergic response; liver failure;  
 KW multiple sclerosis; haemorrhage; paranoia; obsessive compulsive disorder;  
 KW autism; panic disorder; learning disability; feeding disorder;  
 KW sleep pattern disorder; balance; perception; Th1-dependent insulinitis;  
 KW adult respiratory distress syndrome; ARDS.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200214358-A2.  
 XX  
 PD 21-FEB-2002.  
 XX  
 PF 30-JUL-2001; 2001WO-US21124.  
 XX  
 PP 11-AUG-2000; 2000US-224642P.  
 XX  
 PR 19-OCT-2000; 2000US-241779P.  
 XX  
 PS (ELIL ) LILLY & CO ELI.  
 PA  
 PI Edmonds BT, Micanovic R, Ou W, Su EW, Tschang SR, Wang H;  
 XX  
 PI WPI; 2002-304057/34.  
 XX  
 DR N-PSDB; ABK62087.  
 DR  
 DR  
 PT Novel polypeptides and polynucleotides of secreted proteins useful for  
 PT treating various diseases such as multiple sclerosis, cancer,  
 PT autoimmune diseases, osteoporosis, Alzheimer's disease and Parkinson's  
 PT disease  
 XX  
 XX  
 PS Claim 9; Page 200-203; 235pp; English.  
 PS  
 CC The invention relates to a novel human secreted polypeptide having  
 CC sequence 90% identical to the polypeptide sequences of LP105, LP061,  
 CC LP224, LP239(a), LP243(a), LP243(b), LP253, LP218, LP251(a),  
 CC LP252, LP239(b), LP223(a), LP255(a), LP244, LP186, LP251(b), LP255(b),  
 CC or LP223(b). Also included are the nucleic acids encoding the LP  
 CC proteins (including complement, fragments encoding mature forms of the  
 CC polypeptide or variant), a vector comprising the nucleic acid, a  
 CC host cell comprising the vector, the preparation of the protein,  
 CC an anti-LP antibody, ant/agonists of LP and anti-LP-encoding mRNA  
 CC ribozymes. The secreted protein or its agonist is useful in the  
 CC manufacture of a medicament for treating a mammal suffering from a  
 CC disease (and in diagnosis), condition or disorder associated with  
 CC aberrant levels of the secreted protein e.g. cancer, autoimmune diseases,  
 CC arthritis, osteoporosis, Alzheimer's disease, Parkinson's disease,  
 CC meningitis, encephalitis, neoplasia, trauma, ischaemia and infarction,  
 CC mania, stroke, cardiovascular disease, atherosclerosis, rheumatoid  
 CC arthritis, hypothyroidism, anaemia, sepsis, allergic responses, multiple  
 CC sclerosis, liver failure, haemorrhages, paranoia, obsessive compulsive  
 CC disorder, autism, panic disorder, learning disabilities, ALS  
 CC (amyotrophic lateral sclerosis) psychoses, disorders in feeding,  
 CC sleep patterns, balance, and perception, Th1-dependent insulinitis, adult  
 CC respiratory distress syndrome (ARDS). The secreted protein is further  
 CC useful for identifying compounds that bind to the secreted protein. The  
 CC present sequence represents a novel secreted protein of the invention.  
 XX  
 SQ Sequence 713 AA;  
 Query Match 4.9%; Score 32; DB 23; Length 713;  
 Best Local Similarity 100.0%; Pred. No. 9.3e-22;  
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 142 AFEYLSKRLRLWLRNPIESIPSYAFNRVPSL 173  
 |||||  
 Db 153 AFEYLSKRLRLWLRNPIESIPSYAFNRVPSL 184

## RESULT 43

BUS2381  
D ABU52381 standard; Protein; 713 AA.

X C C ABU52381;

X X T 03-MAR-2003 (first entry)

X E Human GPCR related protein NOV31a.

X W Human; NOVX; G-protein coupled receptor; GPCR; cancer; cytostatic.

X S Homo sapiens.

X W WO200279398-A2.

X D 10-OCT-2002.

X F 08-MAR-2002; 2002WO-US07355.

X R 08-MAR-2001; 2001US-274194P.

X R 08-MAR-2001; 2001US-274281P.

X R 08-MAR-2001; 2001US-274322P.

X R 09-MAR-2001; 2001US-274849P.

X R 13-MAR-2001; 2001US-275578P.

X R 13-MAR-2001; 2001US-275579P.

X R 13-MAR-2001; 2001US-275601P.

X R 14-MAR-2001; 2001US-276000P.

X R 16-MAR-2001; 2001US-276776P.

X R 19-MAR-2001; 2001US-276994P.

X R 20-MAR-2001; 2001US-277239P.

X R 20-MAR-2001; 2001US-277327P.

X R 20-MAR-2001; 2001US-277338P.

X R 21-MAR-2001; 2001US-277791P.

X R 22-MAR-2001; 2001US-277833P.

X R 23-MAR-2001; 2001US-278152P.

X R 26-MAR-2001; 2001US-278894P.

X R 27-MAR-2001; 2001US-278999P.

X R 27-MAR-2001; 2001US-279036P.

X R 30-MAR-2001; 2001US-280233P.

X R 02-APR-2001; 2001US-280802P.

X R 02-MAY-2001; 2001US-280852P.

X R 02-MAY-2001; 2001US-288066P.

X R 02-MAY-2001; 2001US-288228P.

X R 17-MAY-2001; 2001US-291768P.

X R 07-JUN-2001; 2001US-296693P.

X R 08-JUN-2001; 2001US-296856P.

X R 05-JUL-2001; 2001US-303230P.

X R 05-JUL-2001; 2001US-303237P.

X R 08-AUG-2001; 2001US-310913P.

X R 13-AUG-2001; 2001US-311978P.

X R 14-AUG-2001; 2001US-312191P.

X R 16-AUG-2001; 2001US-312918P.

X R 17-AUG-2001; 2001US-313182P.

X R 20-AUG-2001; 2001US-313626P.

X R 21-AUG-2001; 2001US-314018P.

X R 27-AUG-2001; 2001US-315227P.

X R 10-SEP-2001; 2001US-318403P.

X R 10-SEP-2001; 2001US-318510P.

X R 14-SEP-2001; 2001US-322296P.

X R 14-SEP-2001; 2001US-322360P.

X R 27-SEP-2001; 2001US-325378P.

X R 09-NOV-2001; 2001US-332486P.

X R 07-NOV-2001; 2001US-345399P.

X R 07-MAR-2002; 2002US-0094886.

X A (CURA-) CURAGEN CORP.

X I Kekuda R, Tchernev VT, Liu X, Spytek KA, Patturajan M, Burgess CE;

X I Vernet CAM, Li L, Gorman L, Malyankar UM, Boldog FL, Guo X;

X I Shenoy SG, Padigaru M, Taupier RJ, Miller CE, Casman SU, Pena CEA;

X I Gangolli EA, Gusev V, Smithson G, Zerhusen BD, Gerlach V;

PI Pochart PF, Fernandes ER, Shinkets RA, Rastelli L, Spaderna SK;

PI Larocheille WJ, Zhong M, Khramtsov NV, Voss EZ, Herrmann JL;

DR NPI; 2003-038423/05.

XX N-PSDB; ABX70472.

PT NOVX polypeptides and polynucleotides, useful for treating a syndrome related to a human disease associated with the NOVX polypeptide e.g., cancer

XX

PS Claim 1; Page 189; 413pp; English.

XX The present invention relates to the isolation of novel human

CC polypeptides referred to as NOVX (NOVI-NOV44), variants of these

CC proteins, and the polynucleotide sequences encoding them. The NOVX

CC proteins of the invention are G-protein coupled receptor (GPCR)

CC related proteins. The sequences of the invention are useful in the

CC manufacture of a medicament for treating a syndrome related to a

CC human disease associated with the polypeptides e.g. cancer.

CC ABU52311-ABU52408 represent the human NOVX proteins of the invention.

XX Sequence 713 AA;

Query Match 4.9%; Score 32; DB 24; Length 713;

Best Local Similarity 100.0%; Pred. No. 9.3e-22;

Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 AFEVLSKRLRLNRPNPIESIPSYAFNRVPSL 173

DB 153 AFEVLSKRLRLNRPNPIESIPSYAFNRVPSL 184

RESULT 44

AAV08100

ID AAV08100 standard; Protein; 640 AA.

XX AAV08100;

DT 11-SEP-2000 (first entry)

XX Human PRO331 protein.

DE Inflammatory cell infiltration; immune response; T cell proliferation;

XX anti-inflammatory; anti-autoimmune; anti-diabetic; spondyloarthropathy;

XX T cell-mediated disease; spondyloarthropathy; sclerosis; renal disease;

XX inflammatory myopathy; hemolytic anemia; thrombocytopenia; thyroiditis;

XX diabetes mellitus; demyelinating polyneuropathy; Guillain-Barre syndrome;

XX multiple sclerosis; polyneuropathy; hepatitis; cirrhosis; enteropathy;

XX sclerosing cholangitis; inflammatory bowel disease; Whipple's disease;

XX skin disease; dermatitis; psoriasis; asthma; allergic rhinitis; tumor;

XX food hypersensitivity; urticaria; eosinophilic pneumonia; transplant;

XX idiopathic pulmonary fibrosis; graft rejection; PRO245; human;

XX PRO331.

XX Homo sapiens.

XX WO9914241-A2.

XX 25-MAR-1999.

XX 17-SEP-1998; 98WO-US19437.

XX 17-SEP-1997; 97US-0059119.

XX 18-SEP-1997; 97US-0059263.

XX 28-OCT-1997; 97US-0063550.

XX 12-NOV-1997; 97US-0065186.

XX 21-NOV-1997; 97US-0066364.

XX 24-NOV-1997; 97US-0066770.

XX 04-JUN-1998; 98US-0088026.

XX (GETH) GENENTECH INC.

XX Fong S, Goddard A, Gurney AL, Tumas D, Wood WI;



XX WPI; 1999-229499/19.  
 DR N-PSDB; AAX37738.  
 XX  
 PT Composition containing novel polypeptide PRO245, its agonist or  
 PT antagonist -  
 PS  
 PS Example 1; Fig 33; 177pp; English.  
 XX  
 XX This invention describes a novel composition containing (apart from a  
 CC carrier or excipient), a novel PRO245 polypeptide (I), its agonist or  
 CC antagonist, or their fragments, for modulating: (i) infiltration of  
 CC inflammatory cells into tissue; (ii) an immune response; or (iii) a cell  
 CC proliferation. The composition increases or decreases any of the effects  
 CC (i)-(iii). The products of the invention have anti-inflammatory,  
 CC anti-autoimmune and anti-diabetic activity. (I), and its (ant)agonists  
 CC and their fragments, are used to treat immune-related diseases,  
 CC particularly T cell-mediated diseases. The diseases treated include  
 CC systemic lupus erythematosus, rheumatoid arthritis, juvenile chronic  
 CC arthritis, spondyloarthropathies, systemic sclerosis (scleroderma),  
 CC idiopathic inflammatory myopathies (dermatomyositis, polymyositis),  
 CC Sjogren's syndrome, systemic vasculitis, sarcoidosis, autoimmune  
 CC hemolytic anemia (immune pancytopenia, paroxysmal nocturnal  
 CC hemoglobinuria), autoimmune thrombocytopenia (idiopathic thrombocytopenic  
 CC purpura immune-mediated thrombocytopenia), thyroiditis (Grave's disease,  
 CC Hashimoto's thyroiditis, juvenile lymphocytic thyroiditis, atrophic  
 CC thyroiditis), diabetes mellitus, immune-mediated renal disease  
 CC (glomerulonephritis, tubulointerstitial nephritis), multiple sclerosis,  
 CC idiopathic demyelinating polyneuropathy, Guillain-Barre syndrome, chronic  
 CC inflammatory demyelinating polyneuropathy, infectious hepatitis  
 CC (hepatitis A, B, C, D, E and other non-hepatotropic viruses), autoimmune  
 CC chronic active hepatitis, primary biliary cirrhosis, granulomatous  
 CC hepatitis, and sclerosing cholangitis, inflammatory bowel disease  
 CC (ulcerative colitis; Crohn's disease), gluten-sensitive enteropathy, and  
 CC Whipple's disease. Autoimmune or immune-mediated skin diseases including  
 CC bullous skin diseases, erythema multiforme, contact dermatitis, psoriasis,  
 CC asthma, allergic rhinitis, atopic dermatitis, food hypersensitivity,  
 CC urticaria, eosinophilic pneumonia, idiopathic pulmonary fibrosis,  
 CC hypersensitivity pneumonitis, and transplantation associated diseases  
 CC (graft rejection, and graft-versus-host-disease). (I), its (ant)agonists  
 CC or fragment can also be used as an adjuvant in treatment of tumors.  
 CC Antibodies against (I) can also be used for diagnosing such diseases.  
 CC This sequence represents the human PRO331 protein which is described in  
 CC the method of the invention.  
 XX  
 SQ Sequence 640 AA;  
 Query Match 2.9%; Score 19; DB 20; Length 640;  
 Best Local Similarity 100.0%; Pred. No. 3.1e-09;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 151 ELWLRNNPIESIPSYAFNR 169  
 DB 152 ELWLRNNPIESIPSYAFNR 170  
 RESULT 45  
 AAW85722  
 ID AAW85722 standard; Protein; 640 AA.  
 AC AAW85722;  
 XX  
 XX 27-SEP-1999 (first entry)  
 DT  
 DE Novel protein (Clone AS209\_1).  
 KW Polynucleotide; protein; nutrition; cytokine; cell proliferation;  
 KW cell differentiation; immunostimulation; immunosuppression;  
 KW haematopoiesis regulation; tissue growth; activin; inhibin;  
 KW chemotaxis; chemokinesis; haemostasis; thrombolysis; receptor;  
 KW ligand; anti-inflammatory; tumour suppression; gene therapy.  
 XX  
 OS Homo sapiens.

XX WO9920644-A1.  
 XX  
 PD 29-APR-1999.  
 XX  
 PF 16-OCT-1998; 98WO-US22034.  
 XX  
 PR 18-OCT-1997; 97US-0955557.  
 XX  
 PA (GEMY ) GENETICS INST INC.  
 XX  
 XX Acostino MJ, Bowman MR, Evans C, Jacobs K, Lavallie ER;  
 PI McCoy JM, Merberg D, Racie LA, Spaulding V, Treacy M;  
 DR WPI; 1999-288272/24.  
 DR N-PSDB; AAX08687.  
 XX  
 PT New polynucleotides encoding secreted human proteins  
 XX  
 XX Claim 26; Page 109-111; 136pp; English.  
 XX  
 XX The new human secreted proteins are encoded by polynucleotides  
 CC obtained from human placenta, adult testes, fetal kidney, fetal  
 CC brain, adult brain, adult brain and adult blood cDNA libraries.  
 CC The polynucleotides and proteins are predicted to have biological  
 CC activities which would make them suitable for treating, preventing or  
 CC ameliorating medical conditions in humans and animals. Suggested  
 CC activities include nutritional activity, cytokine and cell  
 CC proliferation/differentiation activity, immune stimulating (e.g. as  
 CC vaccines) or suppressing activity, haematopoiesis regulating  
 CC activity, tissue growth activity, activin/inhibin activity,  
 CC chemotactic/chemokinetic activity, haemostatic and thrombolytic  
 CC activity, receptor/ligand activity, anti-inflammatory activity,  
 CC cadherin/tumour invasion suppressor activity, and tumour inhibition  
 CC activity. The polynucleotides are also stated to be useful for gene  
 CC therapy. The sequences identified by a secretory leader  
 CC sequence motif in the polynucleotide and it is thought that the  
 CC encoded proteins have biological activity by virtue of their secreted  
 CC nature. This polypeptide was encoded by a clone designated AS209\_1  
 CC (See AAX08687).  
 XX  
 SQ Sequence 640 AA;  
 Query Match 2.9%; Score 19; DB 20; Length 640;  
 Best Local Similarity 100.0%; Pred. No. 3.1e-09;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 151 ELWLRNNPIESIPSYAFNR 169  
 DB 152 ELWLRNNPIESIPSYAFNR 170  
 RESULT 46  
 AAY13394  
 ID AAY13394 standard; Protein; 640 AA.  
 AC AAY13394;  
 XX  
 XX 25-JUN-1999 (first entry)  
 DT  
 DE Amino acid sequence of protein PRO331.  
 XX  
 XX Secreted protein; transmembrane protein; human; enterocolitis;  
 KW Zollinger-Ellison syndrome; gastrointestinal ulceration;  
 KW congenital microvillus atrophy; skin disease; cell growth;  
 KW abnormal keratinocyte differentiation; psoriasis; epithelial cancer;  
 KW Parkinson's disease; Alzheimer's disease; ALS; neuropathy;  
 KW fibromodulin; dermal scarring; Usher Syndrome; Atrophia areata;  
 KW anti-thrombotic; wound healing; tissue repair.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9914328-A2.

X	25-MAR-1999.	98WO-US19330.	97US-0065840.
D			97US-0059113.
X			97US-0059115.
F	16-SEP-1998;		97US-0059117.
X			97US-0059119.
R			97US-0059121.
R			97US-0059122.
R			97US-0059184.
R			97US-0059263.
R			97US-0059266.
R			97US-0062125.
R			97US-0062285.
R			97US-0062287.
R			97US-0063486.
R			97US-0063814.
R			97US-0063816.
R			97US-00639045.
R			97US-0063120.
R			97US-0063121.
R			97US-0063127.
R			97US-0063128.
R			97US-0063327.
R			97US-00633541.
R			97US-0063542.
R			97US-0063544.
R			97US-0063549.
R			97US-0063550.
R			97US-0063564.
R			97US-0064103.
R			97US-0064345.
R			97US-00643704.
R			97US-0063732.
R			97US-0063738.
R			97US-0063734.
R			97US-0064215.
R			97US-0063735.
R			97US-0065863.
R			97US-0065946.
R			97US-0066120.
R			97US-00661364.
R			97US-0064809.
R			97US-0065772.
R			97US-0065776.
R			97US-0066466.
R			97US-0066770.
R			97US-0066511.
R			97US-0066453.
R			97US-0066453.

associated with the preservation and maintenance of gastrointestinal mucosa and the repair of acute and chronic mucosal lesions (e.g. enterocolitis, Zollinger-Ellison syndrome, gastrointestinal ulceration and congenital microvillus atrophy), skin diseases associated with abnormal keratinocyte differentiation (e.g. psoriasis, epithelial cancers such as lung squamous cell carcinoma of the vulva and gliomas), potent effects on cell growth and development, diseases related to growth or survival of nerve cells including Parkinson's disease, Alzheimer's disease, ALS, neuropathies or cancer. PRO3265 can be used for fibromodulin, e.g. for reducing dermal scarring. PRO3264 can be used as a target for anti-tumor drugs. PRO333 may be used in the treatment of Usher Syndrome or Atrophia areata; PRO269 can be used as an anti-thrombotic agent; PRO287 polypeptides and portions may have therapeutic applications in wound healing and tissue repair; PRO317 can be used for treating problems of the kidney, uterus, endometrium, blood vessels or related tissue, e.g. in the heart of genital tract.

AA	Sequence	640 AA;
SO		

```

Query Match      2.9%; Score 19; DB 20; Length 6407;
Best Local Similarity 100.0%; Pred. No. 3.1e-09;
Matches 19; Conservative 0; Mismatches 0; Indels

```

151 ELWLRNNPIESIPSYAFNR 169

152 ELWLRNPIESIPSYAFNR 170

RESULT 47

TD AAB24407 standard: Protein; 640 AA.

AC AAB24407:

DT 07-NOV-2000 (first entry)

Human PRO331 protein sequence SEQ ID NO:107.

Human; PRO; promotion; inhibition; angiogenesis; cardiovascularisation;  
 KW diagnosis; trauma; wound; cancer; atherosclerosis; cardiac hypertrophy;  
 KW angiogenic; proliferative; cardiant; cardiovascular; antiatherosclerotic;  
 KW cytostatic; gene therapy; vaccine.

*Homo sapiens*.

PN WO200032221-A2.

08-JUN-2000

30-NOV-1999: 99WO-US28313.

PR 01-DEC-1998: 98WO-US25108.

PR 12-JAN-1999; 99US-0115554.

PR 12-MAR-1999; 99US-0123957.

PR 14-MAY-1999; 99US-0134287.

PR 23-JUN-1999; 99US-0141037.

PR 26-JUL-1999; 99US-0145698.

PR 08-SRP-1999; 99WO-US20594.

PR 15-SEP-1999; 99WO-US21090.

PR 05-OCT-1999; 99WO-US23089-

XX

[illegible]

PI Godowski PJ, Gurney AL, Klein RD, Kuo SS, Paoni NF, Smith V;  
 PI Watanabe CK, Williams PM, Wood WI;  
 XR WPI; 2000-412154/35.  
 XR N-PSDB; AAA77596.  
 CX Nucleic acids encoding PRO polypeptides useful for preventing,  
 PT diagnosing and treating a cardiovascular, endothelial or  
 XT angiogenic disorders in mammals -  
 CX Claim 72; Fig 40; 315pp; English.  
 CX The present invention describes nucleic acids encoding PRO polypeptides  
 CX useful for preventing, diagnosing and treating disorders in mammals by  
 CX cardiovascular, endothelial or angiogenic disorder in mammals by  
 CX modulating cell proliferation, angiogenesis and cardiovascularisation,  
 CX and for identifying agonists and antagonists of these processes. The  
 CX nucleic acids and the proteins they encode may be used in the  
 CX prevention, treatment and diagnosis of diseases associated with  
 CX inappropriate PRO expression such as cardiovascular, endothelial or  
 CX angiogenic disorders in mammals (e.g. atherosclerosis, cancers and  
 CX cardiac hypertrophy). For example, the nucleic acids (NCs) and vectors  
 CX containing them and the PRO polypeptide may be used to treat disorders  
 CX associated with decreased PRO expression. AAA77510 to AAA77721 and  
 CX AAB24388 to AAB24435 represent nucleotide and protein sequences used in  
 CX the exemplification of the present invention.  
 CX Sequence 640 AA;  
 SQ  
 Query Match 2.9%; Score 19; DB 21; Length 640;  
 Best Local Similarity 100.0%; Pred. No. 3.le-09;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 151 ELMLNNPIESIPSYAFNR 169  
 DB 152 ELMLNNPIESIPSYAFNR 170  
 RESULT 48  
 ID AAY70673 standard; Protein; 640 AA.  
 CX:  
 AC AAY70673;  
 CX 18-JUL-2000 (first entry)  
 CX Human PRO331 protein.  
 CX PRO331; UNQ292; dermatological; immunosuppressive; antiinflammatory;  
 CX immunostimulant; antiasthmatic; antirheumatic; antiarthritic; virucide;  
 CX antiallergic; haemostatic; hepatotropic; antidiabetic; antianemic;  
 CX nephrotropic; neuroprotective; anticoagulant; immunologic disorder;  
 CX lung; pneumonia; skin; psoriasis; kidney; glomerulonephritis; arthritis;  
 CX spondyloarthritis; SLE; systemic lupus erythematosus; scleroderma;  
 CX idiopathic inflammatory myopathy; anaemia; thrombocytopenia; diabetes;  
 CX thyroiditis; Grave's disease; demyelinating disease; multiple sclerosis;  
 CX Crohn's disease; hepatobiliary disease; hepatitis; asthma; human;  
 CX Graft-versus-host-disease.  
 CX Homo sapiens.  
 CX Key Location/Qualifiers  
 CX Modified-site 40..46  
 CX /note= "N-myristoylation site"  
 CX Modified-site 73..79  
 CX /note= "N-myristoylation site"  
 CX Modified-site 118..124  
 CX /note= "N-myristoylation site"  
 CX Modified-site 183..187  
 CX /note= "cAMP and cGMP-dependent protein kinase  
 CX phosphorylation site"  
 CX Modified-site 191..197  
 CX /note= "N-myristoylation site"

FT Modified-site 228..234  
 FT /note= "N-myristoylation site"  
 FT Modified-site 237..243  
 FT /note= "N-myristoylation site"  
 FT Modified-site 268..272  
 FT /note= "Casein Kinase II phosphorylation site"  
 FT Modified-site 278..282  
 FT /note= "N-glycosylation site"  
 FT Modified-site 364..368  
 FT /note= "N-glycosylation site"  
 FT Modified-site 390..394  
 FT /note= "N-glycosylation site"  
 FT Modified-site 391..397  
 FT /note= "N-myristoylation site"  
 FT Modified-site 412..416  
 FT /note= "N-glycosylation site"  
 FT Modified-site 415..419  
 FT /note= "N-glycosylation site"  
 FT Modified-site 417..421  
 FT /note= "Casein Kinase II phosphorylation site"  
 FT Modified-site 422..428  
 FT /note= "N-myristoylation site"  
 FT Modified-site 433..439  
 FT /note= "N-myristoylation site"  
 FT Modified-site 434..438  
 FT /note= "N-glycosylation site"  
 FT Modified-site 442..446  
 FT /note= "N-glycosylation site"  
 FT Modified-site 465..469  
 FT /note= "Casein Kinase II phosphorylation site"  
 FT Modified-site 488..492  
 FT /note= "N-glycosylation site"  
 FT Modified-site 531..537  
 FT /note= "N-myristoylation site"  
 FT Modified-site 579..583  
 FT /note= "Casein Kinase II phosphorylation site"  
 FT Modified-site 606..610  
 FT /note= "N-glycosylation site"  
 FT Modified-site 620..624  
 FT /note= "Casein Kinase II phosphorylation site"  
 FT  
 FT WO200015797-A2.  
 PN  
 CX 23-MAR-2000.  
 PD  
 CX 15-SEP-1999; 99WO-US21547.  
 PP  
 CX 17-SEP-1998; 98US-0100858.  
 PR 17-SEP-1998; 98WO-US19437.  
 CX (GETH) GENENTECH INC.  
 CX Pong S, Goddard A, Gurney AL, Tunas D, Wood WI;  
 CX WPI; 2000-271435/23.  
 DR N-PSDB; AAZ52207.  
 CX Composition for treatment and diagnosis of immune related diseases e.g.  
 CX Grave's disease comprises a PRO245, PRO217, PRO301, PRO266, PRO335,  
 CX PRO331 or PRO326 polypeptide or its agonists or antagonists (preferably  
 CX antibodies) -  
 CX Example 1; Fig 14; 201pp; English.  
 CX The present sequence is the human protein PRO331, encoded by UNQ292 cDNA,  
 CX designated as clone DNA40981. It is isolated from human foetal brain  
 CX tissue. Portions of PRO331 has homology to the Lig-1 protein.  
 CX It enhances or suppresses the infiltration of inflammatory cells into  
 CX tissues, proliferation of T-lymphocytes and modulates the immune  
 CX response. This sequence is useful for treatment of immune related  
 CX disorders, like SLE, rheumatoid/juvenile arthritis, spondyloarthritis,  
 CX systemic sclerosis (scleroderma), idiopathic inflammatory myopathies such  
 CX as dermatomyositis, Sjogren's syndrome, systemic vasculitis, sarcoidosis,

autoimmune haemolytic anaemia, thrombocytopenia, thyroiditis e.g. Grave's disease, diabetes mellitus, immune-mediated renal disease e.g. glomerulonephritis, demyelinating diseases such as multiple sclerosis and Guillain-Barre syndrome, hepatobiliary diseases like hepatitis and primary biliary cirrhosis, inflammatory and fibrotic lung diseases such as inflammatory bowel disease (e.g. Crohn's disease), autoimmune or immune-mediated skin diseases such as psoriasis, allergies like asthma, immunological diseases of the lungs such as eosinophilic pneumonia and transplantation associated diseases such as graft-versus-host-disease.

Sequence 640 AA;

Query Match 2.9%; Score 19; DB 21; Length 640;  
Best Local Similarity 100.0%; Pred. No. 3.1e-09;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

151 ELWLNNPIESIPSYAFNR 169  
152 ELWLNNPIESIPSYAFNR 170

AAU12355 standard; Protein; 640 AA.

AAU12355;

24-OCT-2001 (first entry)

Human PRO331 polypeptide sequence.

Human secretory and transmembrane; PRO; mammalian; cancer; lung; breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha; cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle; adipocyte; A-peptide; factor VIa; gene therapy.

Homo sapiens.

WO200140466-A2.

07-JUN-2001.

01-DEC-2000; 2000WO-US32678.

01-DEC-1999; 99WO-US28301.

01-DEC-1999; 99WO-US28634.

02-DEC-1999; 99WO-US28551.

02-DEC-1999; 99WO-US28564.

02-DEC-1999; 99WO-US28565.

09-DEC-1999; 99US-0170262.

16-DEC-1999; 99WO-US30095.

20-DEC-1999; 99WO-US30911.

20-DEC-1999; 99WO-US30999.

30-DEC-1999; 99WO-US31243.

06-JAN-2000; 2000WO-US00277.

06-JAN-2000; 2000WO-US00376.

11-FEB-2000; 2000WO-US03565.

18-FEB-2000; 2000WO-US04341.

18-FEB-2000; 2000WO-US04342.

22-FEB-2000; 2000WO-US04414.

24-FEB-2000; 2000WO-US04914.

24-FEB-2000; 2000WO-US05004.

Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W; Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S; Smith V, Stewart RA, Tumas D, Watanabe CK, Wood WI, Zhang Z; WPI; 2001-408281/43.  
N-PSDB; AAS21427.

Isolated, secretory and transmembrane PRO polypeptide used to detect other PRO polypeptides, link bioactive molecules to cells expressing PRO polypeptides, and detect the presence of mammalian tumours e.g. lung, breast, prostate, cervical

Claim 12; Fig 368; 813pp; English.

AAU12172-AAU12446 represent novel human secretory and transmembrane PRO polypeptides. The PRO polypeptides are useful to detect other PRO polypeptides, to link bioactive molecules to cells expressing PRO polypeptides, to modulate biological activities of cells expressing PRO polypeptides, and to detect the presence of mammalian lung, colon, breast, prostate, rectal, cervical or liver tumours by comparing PRO polypeptide expression in a cell sample to that in a control sample. Some of the 275 sequences are also useful to stimulate the release of tumour necrosis factor-alpha (TNF-alpha) from human blood, the proliferation or differentiation of chondrocytes, the proliferation or gene expression in pericyte cells, the release of proteoglycans from cartilage, the proliferation of inner ear utricular supporting cells or of T-lymphocytes, the release of a cytokine from endothelial cells. Some of the PRO polypeptides may modulate glucose or free fatty acid uptake by skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide to factor VIa. The PRO polypeptides can be used in assays to identify molecules involved in binding interactions. The polynucleotides encoding PRO polypeptides can be used to generate probes, antisense RNA/DNA, transgenic or knock out animals and can be used in gene therapy.

Sequence 640 AA;

Query Match 2.9%; Score 19; DB 22; Length 640;  
Best Local Similarity 100.0%; Pred. No. 3.1e-09;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

151 ELWLNNPIESIPSYAFNR 169  
152 ELWLNNPIESIPSYAFNR 170

AAU00826 standard; Protein; 640 AA.

AAU00826;

04-JUN-2001 (first entry)

Human immune response protein PRO331 (UNQ292).

Human; PRO331; UNQ292; immune response; osteoarthritis; systemic lupus erythematosus; rheumatoid arthritis; systemic sclerosis; juvenile chronic arthritis; spondyloarthropathy; Sjogren's syndrome; idiopathic inflammatory myopathy; polymyositis; systemic vasculitis; sarcoidosis; autoimmune haemolytic anaemia; immune pancytopenia; autoimmune thrombocytopenia; idiopathic thrombocytopenic purpura; thyroiditis; Grave's disease; Hashimoto's thyroiditis; diabetes mellitus; glomerulonephritis; demyelinating disease; multiple sclerosis; Guillain-Barre syndrome; hepatobiliary disease; chronic inflammatory demyelinating polyneuropathy; infectious hepatitis; auto immune chronic active hepatitis; primary biliary cirrhosis; granulomatous hepatitis; sclerosing cholangitis; ulcerative colitis; inflammatory bowel disease; Crohn's disease; Whipple's disease; erythema multiforme; psoriasis; asthma; allergic rhinitis; urticaria; food hypersensitivity; eosinophilic pneumonia; graft rejection; idiopathic pulmonary fibrosis; graft-versus-host-disease; immunogen;

(GETH ) GENENTECH INC.

antibody.  
XX Homo sapiens.  
XX Key  
FH Peptide  
FT Location/Qualifiers  
FT 1..44 /label= Signal\_peptide  
FT 40..46 /note= "Glycine is N-myristoylated"  
FT Protein  
FT 45..640 /label= Mature\_PRO331  
FT 73..79 /note= "Glycine is N-myristoylated"  
FT 118..124 /note= "Glycine at 118 is N-myristoylated"  
FT 183..187 /label= phosphorylation site  
FT /note= "cAMP/GMP dependent protein kinase phosphorylation site"  
FT 191..197 /note= "Glycine at 191 is N-myristoylated"  
FT 228..234 /note= "Glycine is N-myristoylated"  
FT 237..243 /note= "Glycine is N-myristoylated"  
FT 278..282 /note= "Asn is N-glycosylated"  
FT 364..368 /note= "Asn is N-glycosylated"  
FT 390..394 /note= "Asn is N-glycosylated"  
FT 391..397 /note= "Glycine at 391 is N-myristoylated"  
FT 412..416 /note= "Asn is N-glycosylated"  
FT 415..419 /note= "Asn is N-glycosylated"  
FT 422..428 /note= "Glycine is N-myristoylated"  
FT 433..439 /note= "Glycine is N-myristoylated"  
FT 434..438 /note= "Asn is N-glycosylated"  
FT 442..446 /note= "Asn is N-glycosylated"  
FT 488..492 /note= "Asn is N-glycosylated"  
FT 528..543 /label= Transmembrane\_domain  
FT 531..537 /note= "Glycine is N-myristoylated"  
FT 606..610 /note= "Asn is N-glycosylated"  
XX WO200119991-A1.  
XX 22-MAR-2001.  
XX 20-MAR-2000; 2000WO-US07377.  
XX 15-SEP-1999; 99WO-US21547.  
XX (GETH ) GENENTECH INC.  
XX Fong S, Goddard A, Gurney AL, Hillan KJ, Tumas D, Wood WI;  
XX WPI: 2001-226923/23.  
XX N-PSDB; AAS00162.  
XX Composition for diagnosing and treating immune related diseases, e.g.  
XX Rheumatoid arthritis and diabetes mellitus, comprises a PRO  
XX polypeptide, agonist, antagonist or fragment -

PS Claim 31; Fig 12; 138pp; English.  
XX The sequence represents Human PRO331 (UNQ292), a protein involved in  
XX the immune response. PRO polypeptides, and (ant)agonists to them, are  
XX used in compositions for modulating infiltration of inflammatory cells  
XX into a tissue, modulating an immune response and modulating proliferation  
XX of T-lymphocytes in response to an antigen. Immune related diseases can  
XX be treated with the compositions, such as, systemic lupus erythematosus,  
XX rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis,  
XX spondyloarthropathies, systemic sclerosis, idiopathic inflammatory  
XX myopathies (e.g. polymyositis), Sjogren's syndrome, systemic vasculitis,  
XX sarcoidosis, autoimmune haemolytic anaemia (e.g. immune pancytopenia),  
XX autoimmune thrombocytopenia (e.g. idiopathic thrombocytopenic purpura),  
XX thyroiditis (e.g. Grave's disease, Hashimoto's thyroiditis), diabetes  
XX mellitus, immune-mediated renal disease (e.g. glomerulonephritis),  
XX demyelinating diseases of the central and peripheral nervous systems e.g.  
XX multiple sclerosis or Guillain-Barre syndrome, and chronic inflammatory  
XX demyelinating polyneuropathy, hepatobiliary diseases such as infectious  
XX hepatitis (hepatitis A, B, C, D, E and other non-hepatotropic viruses),  
XX auto immune chronic active hepatitis, primary biliary cirrhosis,  
XX granulomatous hepatitis, and sclerosing cholangitis, inflammatory bowel  
XX disease (ulcerative colitis, Crohn's disease and Whipple's disease),  
XX autoimmune or immune-mediated skin diseases (e.g. erythema  
XX multiforme and psoriasis), asthma, allergic rhinitis, urticaria,  
XX eosinophilic pneumonias, immunologic diseases of the lung such as  
XX associated diseases including graft-versus-host-disease and graft  
XX rejection. PRO polypeptides can be used to diagnose immune related  
XX diseases, to identify inhibitors, and to stimulate the proliferation of  
XX T lymphocytes. Anti-PRO antibodies can be used to detect PRO and  
XX in diagnosis. PRO polypeptides, antibodies and (ant)agonists can be used  
XX in rational drug design.  
XX Sequence 640 AA;  
SQ

Query Match 2.9%; Score 19; DB 22; Length 640;  
Best Local Similarity 100.0%; Pred.No. 3.1e-09;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 151 ELWLRRNNPIESIPSYAFNR 169  
Db 152 ELWLRRNNPIESIPSYAFNR 170  
|||||

Search completed: February 5, 2004, 16:00:21  
Job time : 52 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

protein - protein search, using sw model  
in on: February 5, 2004, 15:58:37 ; Search time 20 Seconds  
(without alignments)  
3139.907 Million cell updates/sec

title: US-09-989-279-229  
effect score: 653  
sequence: 1 MKLLQVTVHHTWNAILLP.....ISEPIYIQTTRDKVQETQI 653

oring table: OLIGO  
Gapop 60.0 , Gapext 60.0

sarched: 283308 seqs, 96168682 residues

ord size : 6

otal number of hits satisfying chosen parameters: 3447

inimum DB seq length: 0

aximum DB seq length: 2000000000

ost-processing: Listing first 150 summaries

atabase : PIR\_76:\*

1: pir1.\*

2: pir2.\*

3: pir3.\*

4: pir4.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

result No.	Score	Query March	Length	DB	ID	Description
1	14	2.1	421	2	T46266	hypothetical prote
2	9	1.4	256	2	JQ1144	H+-transporting tw
3	8	1.2	122	2	T35702	hypothetical prote
4	8	1.2	124	2	G72693	hypothetical prote
5	8	1.2	130	2	T49245	cytoplasmic riboso
6	8	1.2	256	2	A35340	H+-transporting tw
7	8	1.2	338	2	A13621	endo-type 6-aminoh
8	8	1.2	439	1	A48099	transcription fact
9	8	1.2	439	2	I57561	transcription fact
10	8	1.2	440	2	I61183	transcription fact
11	8	1.2	447	2	T48172	hypothetical prote
12	8	1.2	547	2	B56573	nuclear pore compl
13	8	1.2	611	2	A72393	hypothetical prote
14	8	1.2	631	2	C89243	protein P28Cl.3 li
15	8	1.2	631	2	T21471	hypothetical prote
16	8	1.2	693	2	T01122	probable serine/th
17	8	1.2	837	2	D82796	conserved hypoteth
18	8	1.2	878	2	C71305	leucine-tRNA ligas
19	8	1.2	890	2	T21000	hypothetical prote
20	8	1.2	926	2	A57072	disease resistance
21	8	1.2	1054	2	T30177	cytoskeleton assem
22	8	1.2	1111	2	A59000	mater protein [imp
23	8	1.2	2054	2	T07594	hypothetical prote
24	8	1.2	2638	1	A42545	genome polypeptin
25	7	1.1	40	1	FDI18G	antifreeze protein
26	7	1.1	45	2	A05163	antifreeze protein
27	7	1.1	66	2	T35489	hypothetical prote
28	7	1.1	88	2	A83643	hypothetical prote
29	7	1.1	90	4	S50928	hypothetical prote

hypothetical prote  
mucin 5AC (clone C  
mucin 5AC (clone M  
hypothetical prote  
probable transcrip  
probable ribosomal  
ribosomal protein  
ribosomal protein  
hypothetical prote  
acidic ribosomal p  
chlorion protein sl  
hypothetical prote  
two component resp  
G-box binding fact  
p2E40 protein - ba  
ribosomal protein  
hypothetical prote  
photosystem II pro  
photosystem II rea  
hypothetical prote  
sigma E factor reg  
hypothetical prote  
transcription acti  
mucin 5AC - human  
low temperature re  
crossover junction  
hypothetical prote  
probable membrane  
hypothetical prote  
imidazoleglycerol-  
SuAs/YciO/YrdC fam  
prolactin - marble  
probable bacitraci  
hypothetical prote  
hypothetical prote  
DNA polymerase III  
probable DNA polym  
conserved hypoteth  
hypothetical prote  
conserved hypoteth  
NADH2 dehydrogenas  
hypothetical prote  
ribosomal protein  
late expression fa  
probable rna-bindi  
L-rhamnose-binding  
MADS box protein m  
translation elonga  
hypothetical prote  
transcription regu  
major tail protein  
major tail protein  
hypothetical prote  
phosphoglycolate p  
conserved hypoteth  
probable tail comp  
hypothetical prote  
beta-ketoadipate e  
hypothetical prote  
creatinine amidohy  
diaminopimelate ep  
diaminopimelate ep  
mucin 5AC (clone J  
dUDP-4-dehydrotham  
protoporphyrin IX  
chlorophyll a/b-bi  
3-hydroxyacid dehy  
probable transcrip  
hypothetical prote  
ABC transporter (A  
menaquinone biosyn



Accession: G72593  
 Status: preliminary  
 Molecule type: DNA  
 Residues: 1-124 <RAW>  
 Cross-references: DDBJ:AF000060; NID:G5104188; PIDN:BAA79951.1; PID:d1043737; PID:G5104188  
 Experimental source: strain X1  
 Genetics:  
 Gene: APE0967

Query Match 1.2%; Score 8; DB 2; Length 124;  
 Best Local Similarity 100.0%; Pred. No. 6.6;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 581 AATATAP 588  
 b 4 AATATAP 11

RESULT 5  
 49245  
 Ytoplasmic ribosomal protein S15a-like - Arabidopsis thaliana  
 Alternate names: protein F12M12.10  
 Species: Arabidopsis thaliana (mouse-ear cress)  
 Date: 02-Jun-2000 #sequence\_revision 02-Jun-2000 #text\_change 09-Jun-2000  
 Accession: T49245  
 Jordan, N.; Bangert, S.; Wiedemann, R.; Voss, H.; Unseid, M.; Mewes, H.W.; Rudd, S.;  
 submitted to the Protein Sequence Database, May 2000  
 Reference number: Z55020  
 Accession: T49245  
 Status: preliminary  
 Molecule type: DNA  
 Residues: 1-130 <QOR>  
 Cross-references: EMBL:AL355775; GSPDB:GN00063; ATSP:F12M12.10  
 Experimental source: cultivar Columbia; BAC clone F12M12  
 Genetics:  
 Gene: ATSP:F12M12.10  
 Map position: 3  
 Introns: 45/1; 98/3  
 Superfamily: Escherichia coli ribosomal protein S8

Query Match 1.2%; Score 8; DB 2; Length 130;  
 Best Local Similarity 100.0%; Pred. No. 6.9;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2Y 400 RISVLNDG 407  
 Db 3 RISVLNDG 10

RESULT 6  
 A35340  
 H+-transporting two-sector ATPase (EC 3.6.3.14) chain b precursor, mitochondrial - rat  
 Species: Rattus norvegicus (Norway rat)  
 Date: 14-Sep-1990 #sequence\_revision 14-Sep-1990 #text\_change 03-Jun-2002  
 Accession: A35340; D33160  
 Tsutsumi, C.; Yoshihara, Y.; Osaka, F.; Yamada, F.; Tani, I.; Higuti, T.; Shimizu, M.;  
 Biochem. Biophys. Res. Commun. 169, 136-142, 1990  
 Title: cDNA cloning and sequencing for the import precursor of subunit B in H+-ATP synthase  
 Reference number: A35340; MUID:90274656; PMID:2140936  
 Accession: A35340  
 Status: preliminary  
 Molecule type: mRNA  
 Residues: 1-256 <TSU>  
 Cross-references: GB:M35052; NID:G207088; PIDN:AAA42187.1; PID:G207089  
 Godinot, C.  
 submitted to the Protein Sequence Database, February 1991  
 Reference number: A33160  
 Accession: D33160  
 Status: preliminary  
 Molecule type: protein  
 Residues: 'X', 44-52, 'X', 54-56, 'X', 58, 'X', 60-61 <GOD>  
 Keywords: hydrolase; mitochondrion

Query Match 1.2%; Score 8; DB 2; Length 256;  
 Best Local Similarity 100.0%; Pred. No. 13;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 580 SAAATAP 587  
 Db 8 SAAATAP 15

RESULT 7  
 A13621  
 endo-type 6-aminohexanoate oligomer hydrolase [imported] - Brucella melitensis (strain 1  
 Species: Brucella melitensis  
 Date: 01-Feb-2002 #sequence\_revision 01-Feb-2002 #text\_change 01-Feb-2002  
 Accession: A13621  
 DelVecchio, V.G.; Kapral, V.; Redkar, R.J.; Patra, G.; Muer, C.; Los, T.; Ivanova,  
 Mazur, M.; Goltzman, S.; Selkov, E.; Elzer, P.H.; Hagius, S.; O'Callaghan, D.; Letess  
 Proc. Natl. Acad. Sci. U.S.A. 99, 443-448, 2002  
 Title: The genome sequence of the facultative intracellular pathogen Brucella melitensis  
 Reference number: AD3252; PMID:11756688  
 Accession: A13621  
 Status: preliminary  
 Molecule type: DNA  
 Residues: 1-335 <KUR>  
 Cross-references: GB:AE08918; PIDN:AAL54140.1; PID:G17985104; GSPDB:GN00191  
 Experimental source: strain 16M  
 Genetics:  
 Gene: BME110898  
 Map position: 11

Query Match 1.2%; Score 8; DB 2; Length 335;  
 Best Local Similarity 100.0%; Pred. No. 16;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 582 AATAAPSG 589  
 Db 134 AATAAPSG 141

RESULT 8  
 A48099  
 transcription factor GATA-4, retinoic acid-inducible - mouse  
 Species: Mus musculus (house mouse)  
 Date: 21-Jan-1994 #sequence\_revision 12-Jul-1996 #text\_change 16-Jul-1999  
 Accession: A48099  
 Arceci, R.J.; King, A.A.; Simon, M.C.; Orkin, S.H.; Wilson, D.B.  
 Mol. Cell. Biol. 13, 2235-2245, 1993  
 Title: Mouse GATA-4: a retinoic acid-inducible GATA-binding transcription factor  
 Reference number: A48099; MUID:93204969; PMID:8455608  
 Accession: A48099  
 Molecule type: mRNA  
 Residues: 1-439 <ARC>  
 Cross-references: GB:M98339; NID:G293344; PIDN:AAA37662.1; PID:G293345  
 Experimental source: embryo  
 Note: sequence extracted from NCBI backbone (NCBI:127640, NCBI:127641)  
 Comment: This transcriptional activator is named for the core, GATA, of the nucleotide  
 Csuperfamily: transcription factor GATA-4; GATA-type zinc finger homology  
 Keywords: DNA binding; nucleus; transcription factor; transcription regulation; zinc f  
 F212-265/Domain: GATA-type zinc finger homology <GZF1>  
 F266-319/Domain: GATA-type zinc finger homology <GZF2>

Query Match 1.2%; Score 8; DB 1; Length 439;  
 Best Local Similarity 100.0%; Pred. No. 21;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 36 AAAASAGP 43  
 Db 175 AAAASAGP 182

RESULT 9  
 157561



```

transcription factor GATA-4 - human
C:Species: Homo sapiens (man)
C>Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 17-Mar-1999
C:Accession: I57561; J04020
R:Yamagata, T.; Nishida, J.; Sakai, R.; Tanaka, H.; Hirano, N.; Mano, H.; Yae
Mol. Cell. Biol. 15, 3830-3839, 1995
A:Title: Of the GATA-binding proteins, only GATA-4 selectively regulates the human inter
A:Reference number: I57561; MUID:95311982; PMID:7791790
A:Accession: I57561
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-439 <RES>
A:Cross-references: GB:S78666; NID:G1042085; PID:G1042086
R:Huang, W.Y.; Cukerman, B.; Liew, C.C.
Gene 155, 219-223, 1995
A:Title: Identification of a GATA motif in the cardiac alpha-myosin heavy-chain-encoding
A:Reference number: J04020; MUID:95237613; PMID:7721094
A:Accession: J04020
A:Molecule type: mRNA
A:Residues: 'MAANHGPPPCAYQAGGPGFMHGAASS', 'PVYLPTRPVSSVLGLSLQGGAGSAGG', 64-68, 'P', '
A:Cross-references: GB:I34357; NID:G508483
A:Experimental source: heart
C:Comment: This protein regulates a set of cardiac-specific genes and plays a crucial ro
C:Genetics:
A:Gene: GDB:GATA4
A:Cross-references: GDS:433278; OMIM:600576
A:Map position: 8p23.1-8p23.1
C:Superfamily: transcription factor GATA-4; GATA-type zinc finger homology
C:Keywords: DNA binding; transcription factor; zinc finger
F:211-264/Domain: GATA-type zinc finger homology <GZF1>
F:214-238/Region: zinc finger GATA motif
F:265-318/Domain: GATA-type zinc finger homology <GZF2>
F:268-292/Region: zinc finger GATA motif

Query Match 1.2%; Score 8; DB 2; Length 439;
Best Local Similarity 100.0%; Pred.No. 21;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 35 AAAASAGP 43
DB 173 AAAASAGP 180

RESULT 10
I61183
transcription factor GATA - rat
N:Alternate names: DNA binding protein
C:Species: Rattus norvegicus (Norway rat)
C>Date: 27-Feb-1997 #sequence_revision 27-Feb-1997 #text_change 08-Dec-2000
C:Accession: I61183
R:Tamura, S.; Wang, X.H.; Maeda, M.; Futai, M.
Proc. Natl. Acad. Sci. U.S.A. 90, 10876-10880, 1993
A:Title: Gastric DNA-binding proteins recognize upstream sequence motifs of parietal cel
A:Reference number: A49645; MUID:94068504; PMID:8248184
A:Accession: I61183
A>Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-440 <TAM>
A:Cross-references: GB:I22761; NID:G437669; PIDN:AAAL16159.1; PID:G437670
C:Genetics:
A:Gene: GATA-GT2
C:Superfamily: transcription factor GATA-4; GATA-type zinc finger homology
C:Keywords: zinc finger
F:213-266/Domain: GATA-type zinc finger homology <GZF1>
F:267-320/Domain: GATA-type zinc finger homology <GZF2>

Query Match 1.2%; Score 8; DB 2; Length 440;
Best Local Similarity 100.0%; Pred.No. 21;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 36 AAAASAGP 43
DB 176 AAAASAGP 183

RESULT 11
T48172
hypothetical protein F7A7.30 - Arabidopsis thaliana
C:Species: Arabidopsis thaliana (mouse-ear cress)
C>Date: 20-Apr-2000 #sequence_revision 20-Apr-2000 #text_change 20-Apr-2000
C:Accession: T48172
R:Bevan, M.; Terry, N.; Ardiles, W.; Buyssebaert, C.; Dasseville, R.; De Clerck, R.; De
ewes, H.W.; Rudd, S.; Lemcke, K.; Mayer, K.F.X.
submitted to the Protein Sequence Database, March 2000
A:Reference number: Z24487
A:Accession: T48172
A>Status: preliminary
A:Molecule type: DNA
A:Residues: 1-447 <BEV>
A:Cross-references: EMBL:AL161946
A:Experimental source: Cultivar Columbia; BAC clone F7A7
C:Genetics:
A:Map position: 5
A:Introns: 34/2; 47/2; 88/3; 97/3; 121/2; 137/1; 163/2; 187/3; 217/3; 237/3; 275/3; 296,
A>Note: F7A7.30

Query Match 1.2%; Score 8; DB 2; Length 447;
Best Local Similarity 100.0%; Pred.No. 21;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 579 TSAATAAA 586
DB 107 TSAATAAA 114

RESULT 12
B56573
nuclear pore complex glycoprotein p62 - African clawed frog
C:Species: Xenopus laevis (African clawed frog)
C>Date: 21-Jul-1995 #sequence_revision 28-Jul-1995 #text_change 21-Jul-2000
C:Accession: B56573
R:Cordees, V.; Waizenegger, I.; Krohne, G.
Eur. J. Cell Biol. 55, 31-47, 1991
A:Title: Nuclear pore complex glycoprotein p62 of Xenopus laevis and mouse: cDNA clonin
A:Reference number: A56573; MUID:92007945; PMID:1915419
A:Accession: B56573
A>Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-547 <COR>
A:Cross-references: GB:S59344; NID:G236262; PIDN:AAAL9954.1; PID:G236263
A>Note: sequence extracted from NCBI backbone (NCBI:59344, NCBI:59345)
C:Comment: The amino end of this protein contains O-linked N-acetylglucosamine additions
C:Keywords: glycoprotein; nuclear membrane; peripheral membrane protein

Query Match 1.2%; Score 8; DB 2; Length 547;
Best Local Similarity 100.0%; Pred.No. 26;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 582 AATAAPSG 589
DB 34 AATAAPSG 41

RESULT 13
A72393
hypothetical protein TW0300 - Thermotoga maritima (strain MS88)
C:Species: Thermotoga maritima
C>Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 21-Jul-2000
C:Accession: A72393
R:Nelson, K.B.; Clayton, R.A.; Gill, S.R.; Gwinn, M.L.; Dodson, R.J.; Haft, D.H.; Hicke
Garrett, M.M.; Stewart, A.M.; Cotton, M.D.; Pratt, M.S.; Phillips, C.A.; Richardson, D.,
C.M.
Nature 399, 323-329, 1999
A:Title: Evidence for lateral gene transfer between Archaea and Bacteria from genome sec
A:Reference number: A72200; MUID:99287316; PMID:10360571
A:Accession: A72393

```

```
.;Status: preliminary
.;Molecule type: DNA
.;Residues: 1-611 <ARN>
.;Cross-references: GB:AE001712; GB:AE00512; NID:g4980799; PIDN:RAD35388.1; PID:g498080
.;Experimental source: strain MSB8
.;Genetics:
.;Gene: TM0300
.;Superfamily: dipeptide transport protein

Query Match      1.2%  Score 8; DB 2; Length 611;
Best Local Similarity 100.0%; Pred. No. 28;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y      383 KWLPPNGT 390
      |||||
b      422 KWLPPNGT 429

RESULT 14
8243
rotein F28C1.3 [imported] - Caenorhabditis elegans
.;Species: Caenorhabditis elegans
.;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 10-May-2001
.;Accession: C89243
.;anonymous, The C. elegans Sequencing Consortium.
.;Title: Genome sequence of the nematode C. elegans: a platform for investigating biolog
.;Reference number: A75000; MUID:99069613; PMID:9851916
.;Note: see websites genome.wustl.edu/gsc/C_elegans/ and www.sanger.ac.uk/Projects/C_ele
.;Note: published errata appeared in Science 283, 35, 1999; Science 283, 2103, 1999; and
.;Accession: C89243
.;Status: preliminary
.;Molecule type: DNA
.;Residues: 1-631 <STO>
.;Cross-references: GB:chr_V; PIDN:CAA99943.1; PID:g3880465; GSPDB:GN00023; CESP:F28C1.3
.;Genetics:
.;Gene: F28C1.3
.;Map position: 5

Query Match      1.2%  Score 8; DB 2; Length 631;
Best Local Similarity 100.0%; Pred. No. 29;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y      33 AAIAAARS 40
      |||||
b      591 AAIAAARS 598

RESULT 15
21471
ypothetical protein F28C1.3 - Caenorhabditis elegans (fragment)
.;Species: Caenorhabditis elegans
.;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 29-Oct-1999
.;Accession: T21471; T26151
.;Kershaw, J.
.;Reference number: Z19427
.;Submitted to the EMBL Data Library, June 1996
.;Status: preliminary; translated from GB/EMBL/DDBJ
.;Molecule type: DNA
.;Residues: 1-631 <WIL>
.;Cross-references: EMBL:Z75559; PIDN:CAA99946.1; GSPDB:GN00023; CESP:F28C1.3
.;Experimental source: clone F28C1
.;Lennard, N.
.;Submitted to the EMBL Data Library, June 1996
.;Reference number: Z20161
.;Accession: T26151
.;Status: preliminary; translated from GB/EMBL/DDBJ
.;Molecule type: DNA
.;Residues: 1-631 <W12>
.;Cross-references: EMBL:Z75552; PIDN:CAA99943.1; GSPDB:GN00023; CESP:F28C1.3
.;Experimental source: clone W04D2
.;Genetics:
```

```
A;Gene: CESP:F28C1.3
A;Map position: 5
A;Introns: 154/3; 295/3; 339/3; 412/1; 445/3; 506/1; 631/1

Query Match      1.2%  Score 8; DB 2; Length 631;
Best Local Similarity 100.0%; Pred. No. 29;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      33 AAIAAARS 40
      |||||
Db      591 AAIAAARS 598

RESULT 16
T01122
probable serine/threonine protein kinase [imported] - Arabidopsis thaliana
N;Alternate names: hypothetical protein F24L7.1; T21L14.21
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 12-Feb-1999 #sequence_revision 12-Feb-1999 #text_change 16-Feb-2001
C;Accession: T01122; T00783; C84738
R;Rounsley, S.D.; Lin, X.; Ketchum, K.A.; Crosby, M.L.; Brandon, R.C.; Sykes, S.M.; Kaul
submitted to the EMBL Data Library, December 1997
A;Description: Arabidopsis thaliana chromosome II BAC T21L14 genomic sequence.
A;Reference number: Z14209
A;Accession: T01122
A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-693 <ROU>
A;Cross-references: EMBL:AC003033; NID:g2702261; PID:g2702277
A;Experimental source: cultivar Columbia
R;Rounsley, S.D.; Lin, X.; Ketchum, K.A.; Crosby, M.L.; Brandon, R.C.; Sykes, S.M.; Kaul
submitted to the EMBL Data Library, February 1998
A;Description: Arabidopsis thaliana chromosome II BAC F24L7 genomic sequence.
A;Reference number: Z14204
A;Accession: T00783
A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-693 <ROW>
A;Cross-references: EMBL:AC003974; NID:g2914688; PID:g2914689
A;Experimental source: cultivar Columbia
R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.L.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L.;
euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, J.
Nature 402, 761-768, 1999
A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A;Reference number: A84420; MUID:20083487; PMID:10617197
A;Accession: C84738
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-693 <STO>
A;Cross-references: GB:AB002093; NID:g2702277; PIDN:AAB91980.1; GSPDB:GN00139
C;Genetics:
A;Gene: At2g32850; T21L14.21; F24L7.1
A;Map position: 2
A;Introns: 156/2; 211/3; 228/3; 312/1
C;Superfamily: yeast hypothetical protein YNL020c; protein kinase homology

Query Match      1.2%  Score 8; DB 2; Length 693;
Best Local Similarity 100.0%; Pred. No. 32;
Matches      8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      577 AATSAAT 584
      |||||
Db      647 AATSAAT 654

RESULT 17
D82796
conserved hypothetical protein X70521 [imported] - Xylella fastidiosa (strain 9a5c)
C;Species: Xylella fastidiosa
C;Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 20-Aug-2000
C;Accession: D82796
R;anonymous, The Xylella fastidiosa Consortium of the Organization for Nucleotide Sequen
```

ature 406, 151-157, 2000

Title: The genome sequence of the plant pathogen *Xylella fastidiosa*.

Reference number: A83515; MID:2036517; PMID:10910347

Note: for a complete list of authors see reference number A59328 below

Accession: D82796

Status: preliminary

Molecule type: DNA

Residues: 1-837 <SIM>

Cross-references: GB:AE003900; GB:AE003849; MID:g9105366; PIDN:AAF83331.1; GSPDB:GN001

Experimental source: strain gasc

Simpson, A.J.G.; Reinach, P.C.; Arruda, P.; Abreu, F.A.; Acencio, M.; Alvares, R.; A

riões, M.R.S.; Bueno, M.R.P.; Camargo, L.E.A.; Carraro, D.M.; Carreir, H

s-Neto, E.; Docena, C.; El-Dorry, H.; Facincani, A.P.; Ferreira, A.J.S.

submitted to GenBank, June 2000

Authors: Ferreira, V.C.A.; Ferro, J.A.; França, S.C.; Franco, M.C.; Frohm

D.; Junqueira, M.L.; Kemper, E.L.; Kitajima, J.P.; Krieger, J.E.; Kuramae, E.E.; Laig

hato, M.A.; Madeira, A.M.B.N.; Madeira, H.M.P.; Marino, C.L.; Marques, M.V.; Martins, E

Authors: Martins, B.M.F.; Matsukuma, A.Y.; Menck, C.F.M.; Miracca, E.C.; Miyaki, C.Y.

F.G.; Nunes, L.R.; Oliveira, M.A.; de Oliveira, M.C.; de Oliveira, R.C.; Palmieri, D.A

drigues, V.; Rosa, A.J. de M.; de Rosa Jr., V.B.; de Sa, R.G.; Santelli, R.V.; Sawasak

Authors: da Silva, A.C.R.; da Silva, F.R.; da Silva, A.M.; Silva Jr., W.A.; da Silveir

1.; Tshunako, M.H.; Vallada, H.; van Sluys, M.A.; Verjovski-Almeida, S.; Vettore, A.L.; Z

Reference number: A59328

Contents: annotation

Genetics:

Gene: XP0521

Query Match 1.2%; Score 8; DB 2; Length 837;

Best Local Similarity 100.0%; Pred. No. 38;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Zy 33 AATAAAS 40

Db 445 AATAAAS 452

RESULT 18

C71305

leucine-trna ligase (EC 6.1.1.4) - syphilis spirochete

Species: Treponema pallidum subsp. pallidum (syphilis spirochete)

Date: 24-Jul-1998 #sequence\_revision 24-Jul-1998 #text\_change 03-Jun-2002

Accession: C71305

Praser, C.M.; Norris, S.J.; Weinstock, G.M.; White, O.; Sutton, G.G.; Dodson, R.; Gwin

son, J.; Khalak, H.; Richardson, D.; Howell, J.K.; Chidambaram, M.; Utterback, T.; McDo

ney, L.; Weidman, J.; Smith, H.O.; Venter, J.C.

Science 281, 375-388, 1998

Title: Complete genome sequence of Treponema pallidum, the syphilis spirochete.

Reference number: A71250; MID:98332770; PMID:9665876

Accession: C71305

Status: preliminary; nucleic acid sequence not shown; translation not shown

Molecule type: DNA

Residues: 1-878 <COL>

Cross-references: GB:AE001234; GB:AE000520; MID:g3322881; PIDN:AAC65562.1; PID:g332288

Experimental source: strain Nichols

Genetics:

Gene: TP0586

Superfamily: leucine-trna ligase

Keywords: aminoacyl-CRNA synthetase; ligase; protein biosynthesis

Query Match 1.2%; Score 8; DB 2; Length 878;

Best Local Similarity 100.0%; Pred. No. 40;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Zy 117 GAFNGLAS 124

Db 404 GAFNGLAS 411

RESULT 19

T21000

hypothetical protein F15H10.4 - Caenorhabditis elegans

Species: Caenorhabditis elegans

Date: 15-Oct-1999 #sequence\_revision 15-Oct-1999 #text\_change 15-Oct-1999

C:Accession: T21000

R:Perks, M.

submitted to the EMBL Data Library, June 1996

Reference number: Z19356

Accession: T21000

Status: preliminary; translated from GB/EMBL/DDBJ

Molecule type: DNA

Residues: 1-690 <WIL>

Cross-references: EMBL:Z73972; PIDN:CAA98263.1; GSPDB:GN00023; CESP:F15H10.4

Experimental source: clone F15H10

Genetics:

Gene: CESP:F15H10.4

Map position: 5

Introns: 18/2; 54/1; 84/1; 141/2; 174/1; 205/1; 274/1; 436/1; 470/3; 488/3; 510/3; 624

Query Match 1.2%; Score 8; DB 2; Length 890;

Best Local Similarity 100.0%; Pred. No. 40;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Zy 17 ILLPFVYL 24

Db 656 ILLPFVYL 663

RESULT 20

A57072

disease resistance protein RPM1 - Arabidopsis thaliana

Species: Arabidopsis thaliana (mouse-ear cress)

Date: 03-Oct-1995 #sequence\_revision 03-Oct-1995 #text\_change 31-Mar-2000

Accession: A57072

Grant, M.R.; Godiard, L.; Straube, E.; Ashfield, T.; Lewald, J.; Sattler, A.; Innes, I

Science 269, 843-846, 1995

Title: Structure of the Arabidopsis RPM1 gene enabling dual specificity disease resist

Reference number: A57072; MID:95355795; PMID:7638502

Accession: A57072

Status: preliminary; nucleic acid sequence not shown

Molecule type: DNA

Residues: 1-926 <GRA>

Cross-references: GB:X87851; MID:g963016; PIDN:CAA61131.1; PID:g963017

Genetics:

Gene: RPM1

Superfamily: disease resistance protein RPS2; leucine-rich alpha-2-glycoprotein repeat

F582-604/Domain: leucine-rich alpha-2-glycoprotein repeat homology <ERR1>

F605-627/Domain: leucine-rich alpha-2-glycoprotein repeat homology <ERR2>

F628-650/Domain: leucine-rich alpha-2-glycoprotein repeat homology <ERR3>

Query Match 1.2%; Score 8; DB 2; Length 926;

Best Local Similarity 100.0%; Pred. No. 42;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Zy 196 FNLYLNL 203

Db 604 FNLYLNL 611

RESULT 21

T30177

Cytoskeleton assembly control protein homolog Sla2 - yeast (Yarrowia lipolytica)

Species: Yarrowia lipolytica, Candida lipolytica

Date: 22-Oct-1999 #sequence\_revision 22-Oct-1999 #text\_change 22-Oct-1999

Accession: T30177

Gaumann, U.; Schilhabel, M.B.; Kurischko, C.

submitted to the EMBL Data Library, July 1996

Description: Sla2 homologue of Yarrowia lipolytica.

Reference number: Z20763

Accession: T30177

Status: preliminary; translated from GB/EMBL/DDBJ

Molecule type: DNA

Residues: 1-1054 <GAU>

Cross-references: EMBL:U65409; MID:g93978133; PID:g93978134; PIDN:AAC83184.1

Experimental source: strain W29

Genetics:

Gene: SLA2

Map position: III, adjacent to MATA

Query Match 1.2%; Score 8; DB 2; Length 1054;  
 Best Local Similarity 100.0%; Pred. No. 47;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Y 34 AIAAASA 41  
 |||||  
 b 819 AIAAASA 826  
 |||||  
 RESULT 22  
 59000  
 ;Species: Mus musculus {mouse}  
 ;Date: 03-Aug-2001 #sequence\_revision 03-Aug-2001 #text\_change 03-Aug-2001  
 ;Accession: A59000  
 ;Long, Z.B.; Nelson, L.M.  
 ;ndocrinology 140, 3720-3726, 1999  
 ;Title: A mouse gene encoding an oocyte antigen associated with autoimmune premature ov  
 ;Reference number: A59000; MUID:99350614; PMID:1043322  
 ;Accession: A59000  
 ;Status: preliminary  
 ;Molecule type: DNA  
 ;Residues: 1-1111 <KUR>  
 ;Cross-references: GB:AF074018; NID:G5802697; PIDN:AAD51762.1; PID:G5802698  
 ;Genetics:  
 ;Gene: Mater

Query Match 1.2%; Score 8; DB 2; Length 1111;  
 Best Local Similarity 100.0%; Pred. No. 49;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Y 197 NLKYLNLG 204  
 |||||  
 b 749 NLKYLNLG 756  
 |||||  
 RESULT 23  
 07584  
 ;Species: chloroplast Pinus thunbergiana (Japanese black pine)  
 ;Date: 14-May-1999 #sequence\_revision 14-May-1999 #text\_change 18-Aug-2000  
 ;Accession: T07584  
 ;Wakasugi, T.; Tsudzuki, J.; Ito, S.; Nakashima, K.; Tsudzuki, T.; Sugiura, M.  
 ;roc. Natl. Acad. Sci. U.S.A. 91, 9794-9796, 1994  
 ;Title: Loss of all nch genes as determined by sequencing the entire chloroplast genome  
 ;Reference number: Z16030; MUID:95024047; PMID:7937893  
 ;Accession: T07584  
 ;Status: preliminary; translated from GB/EMBL/DDBY  
 ;Molecule type: DNA  
 ;Residues: 1-2054 <WAK>  
 ;Cross-references: EMBL:DI7510; NID:G529643; PIDN:BA04460.1; PID:G1262745  
 ;Genetics:  
 ;Genome: chloroplast  
 ;Keywords: chloroplast

Query Match 1.2%; Score 8; DB 2; Length 2054;  
 Best Local Similarity 100.0%; Pred. No. 86;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Y 275 HNNLSSLP 282  
 |||||  
 b 819 HNNLSSLP 826  
 |||||  
 RESULT 24  
 42545  
 ;Species: Langkat virus (strain TP21) (fragment)  
 ;Contains: nonstructural protein NS1; nonstructural protein NS2a; nonstructural protein  
 NS5  
 ;Species: Langkat virus  
 ;Date: 30-Sep-1993 #sequence\_revision 30-Sep-1993 #text\_change 19-Jan-2001

C;Accession: A42545; A61409; C61409  
 R;Iacono-Connors, L.C.; Schmaljohn, C.S.  
 ;Virology 138, 875-880, 1992  
 ;Title: Cloning and sequence analysis of the genes encoding the nonstructural proteins  
 A;Reference number: A42545; MUID:92263794; PMID:1316684  
 ;Accession: A42545  
 ;Molecule type: genomic RNA  
 ;Residues: 1-2638 <IAC>  
 A;Cross-references: GB:S35365; NID:G249315; PIDN:AAB22165.1; PID:G249316  
 R;Guirakhoo, F.; Heinz, F.X.; Mandl, C.W.; Holzmann, H.; Kunz, C.; Gresikova, M.  
 ;Gen. Virol. 72, 333-338, 1991  
 ;Title: The relationship between the flaviviruses Stalica and Langat as revealed by mon  
 A;Reference number: A61409; MUID:91132129; PMID:1847173  
 ;Accession: A61409  
 ;Status: not compared with conceptual translation  
 A;Molecule type: genomic RNA  
 ;Residues: 319-337 <GUI>  
 ;Accession: C61409  
 ;Status: not compared with conceptual translation  
 A;Molecule type: genomic RNA  
 ;Residues: 877-994 <GU2>  
 C;Superfamily: yellow fever virus genome polyprotein  
 C;Keywords: glycoprotein; nonstructural protein NS1 #status predicted <NS1>  
 E;1-352/Product: nonstructural protein NS2a #status predicted <N2A>  
 E;353-592/Product: nonstructural protein NS3 #status predicted <NS3>  
 F;583-713/Product: nonstructural protein NS4 #status predicted <NS4>  
 F;714-1334/Product: nonstructural protein NS5 #status predicted <NS5>  
 F;912-919/Region: nucleotide-binding motif A (P-loop)  
 F;1335-1483/Product: nonstructural protein NS4a #status predicted <N4A>  
 F;1484-1735/Product: nonstructural protein NS4b #status predicted <N4B>  
 F;1736-2638/Product: nonstructural protein NS5 #status predicted <NS5>  
 F;85,207,223,873,1212,1571,1950/Binding site: carbohydrate (Asn) (covalent) #status pred

Query Match 1.2%; Score 8; DB 1; Length 2638;  
 Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 267 SLVELNLA 274  
 |||||  
 DB 71 SLVELNLA 78  
 |||||  
 RESULT 25  
 FDF18G  
 ;antifreeze protein GS-8 - grubby sculpin  
 C;Species: Myoxocephalus aeneus (grubby sculpin)  
 C;Date: 31-Dec-1990 #sequence\_revision 31-Dec-1990 #text\_change 24-Nov-1999  
 ;Accession: S07046  
 R;Chakrabarty, A.; Hew, C.L.; Shears, M.; Fletcher, G.  
 Can. J. Zool. 66, 403-408, 1988  
 ;Title: Primary structures of the alanine-rich antifreeze polypeptides from grubby scul  
 A;Reference number: S06417  
 ;Accession: S07046  
 ;Molecule type: protein  
 ;Residues: 1-40 <CHA>  
 C;Superfamily: antifreeze protein  
 C;Keywords: antifreeze; blocked amino end  
 F;1/Modified site: blocked amino end (Met) #status experimental

Query Match 1.1%; Score 7; DB 1; Length 40;  
 Best Local Similarity 100.0%; Pred. No. 23;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 33 AAIAAAA 39  
 |||||  
 DB 33 AAIAAAA 39  
 |||||  
 RESULT 26  
 A05163  
 ;antifreeze protein SS-8 - shorthorn sculpin  
 C;Species: Myoxocephalus scorpius (shorthorn sculpin, daddy sculpin)  
 C;Date: 05-Jun-1987 #sequence\_revision 05-Jun-1987 #text\_change 24-Nov-1999

C;Accession: A05163  
 R;Hew, C.L.; Joshi, S.; Wang, N.C.; Kao, M.H.; Ananthanarayanan, V.S.  
 Eur. J. Biochem. 153, 167-172, 1985  
 A;Title: Structures of shorthorn sculpin antifreeze polypeptides.  
 A;Reference number: A91150; MUID:85285003; PMID:4029130  
 A;Accession: A05163  
 A;Molecule type: protein  
 A;Residues: 1-45 <HEW>  
 C;Superfamily: antifreeze protein  
 C;Keywords: antifreeze; blocked amino end; plasma  
 F;9-45/Region: alanine-rich  
 F;1/Modified site: blocked amino end (Met) #status experimental

Query Match 1.1%; Score 7; DB 2; Length 45;  
 Best Local Similarity 100.0%; Pred. No. 26;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 33 AATAAAA 39  
 |||||

Db 36 AATAAAA 42  
 |||||

RESULT 27

T35489

hypothetical protein SC6E10.02 - Streptomyces coelicolor

C;Species: Streptomyces coelicolor  
 C;Date: 05-Nov-1999 #sequence\_revision 05-Nov-1999 #text\_change 05-Nov-1999

C;Accession: T35489

R;Seeger, K.; Harris, D.; James, K.D.; Parkhill, J.; Barrell, B.G.; Rajandream, M.A.  
 submitted to the EMBL Data Library, August 1999

A;Reference number: Z21580

A;Accession: T35489

A;Status: Preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-66 <SEE>

A;Cross-references: EMBL:AL109661; PIDN:CAB51856.1; GSPDB:GN00070; SCODEB:SC6E10.02

A;Experimental source: strain A3(2)

C;Genetics:

A;Gene: SCODEB:SC6E10.02

Query Match 1.1%; Score 7; DB 2; Length 66;  
 Best Local Similarity 100.0%; Pred. No. 37;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 584 TRAPSGV 590  
 |||||

Db 26 TRAPSGV 32  
 |||||

RESULT 28

A83643

hypothetical protein P80012 [imported] - Pseudomonas aeruginosa (strain PA01)

C;Species: Pseudomonas aeruginosa  
 C;Date: 15-Sep-2000 #sequence\_revision 15-Sep-2000 #text\_change 31-Dec-2000

C;Accession: A83643

R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrenner, P.; Hickey, M.J.; Bz  
 adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lim,  
 .; Lory, S.; Olson, M.V.  
 Nature 406, 959-964, 2000

A;Title: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunistic patho

A;Reference number: A82950; MUID:20437337; PMID:10984043

A;Accession: A83643

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-88 <STO>

A;Cross-references: GB:AE004441; GB:AE004091; NID:g9945828; PIDN:AG03402.1; GSPDB:GN001

A;Experimental source: strain PA01

C;Genetics:

A;Gene: PA0012

Query Match 1.1%; Score 7; DB 2; Length 88;  
 Best Local Similarity 100.0%; Pred. No. 48;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 416 LSDTGVY 422  
 |||||

Db 33 LSDTGVY 39  
 |||||

RESULT 29

S50928

hypothetical protein YN646.12c - yeast (Saccharomyces cerevisiae)

C;Species: Saccharomyces cerevisiae

C;Date: 10-Feb-1995 #sequence\_revision 05-Sep-1996 #text\_change 20-Oct-2000

C;Accession: S50928

R;Pearson, D.; Bowman, S.

submitted to the EMBL Data Library, January 1995

A;Reference number: S50917

A;Accession: S50928

A;Status: conceptual translation of pseudogene

A;Molecule type: DNA

A;Residues: 1-90 <PEA>

A;Cross-references: EMBL:Z47815; NID:g542280; PIDN:CAA87821.1; PID:g542292

C;Comment: There is no evidence that this sequence is expressed.

C;Genetics:

A;Map position: 13R

C;Keywords: pseudogene

Query Match 1.1%; Score 7; DB 4; Length 90;  
 Best Local Similarity 100.0%; Pred. No. 49;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 284 DLFTPLR 290  
 |||||

Db 24 DLFTPLR 30  
 |||||

RESULT 30

B84396

hypothetical protein Vng2456c [imported] - Halobacterium sp. NRC-1

C;Species: Halobacterium sp. NRC-1

C;Date: 02-Feb-2001 #sequence\_revision 02-Feb-2001 #text\_change 02-Feb-2001

C;Accession: B84396

R;Ng, W.V.; Kennedy, S.P.; Mahairas, G.G.; Berquist, B.; Pan, M.; Shukla, H.D.; Lasky, J.  
 ; Leitthausner, B.; Keller, K.; Cruz, R.; Danson, M.J.; Hough, D.W.; Maddocks, D.G.; Jabl  
 Jung, K.H.; Alam, M.; Freitas, T.  
 Proc. Natl. Acad. Sci. U.S.A. 97, 12176-12181, 2000

A;Authors: Hou, S.; Daniels, C.J.; Dennis, P.P.; Omar, A.D.; Ebhardt, H.; Lowe, T.M.; L

A;Title: Genome sequence of Halobacterium species NRC-1

A;Reference number: A84160; MUID:20504483; PMID:11016950

A;Accession: B84396

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-92 <STO>

A;Cross-references: GB:AE004437; NID:g10581859; PIDN:AG20534.1; GSPDB:GN00138

C;Genetics:

A;Gene: VNG2456C

Query Match 1.1%; Score 7; DB 2; Length 92;  
 Best Local Similarity 100.0%; Pred. No. 50;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 534 VAVTLIA 540  
 |||||

Db 47 VAVTLIA 53  
 |||||

RESULT 31

S53365

mucin SAC (clone CEL2) - human (fragment)

C;Species: Homo sapiens (man)

C;Date: 15-Jul-1995 #sequence\_revision 01-Sep-1995 #text\_change 08-Oct-1999

C;Accession: S53365

R;Guyonnet-Duperat, V.; Audie, J.P.; Debailleul, V.; Laine, A.; Buissine, M.P.; Gailegue  
 Biochem. J. 305, 211-219, 1995

A;Title: Characterization of the human mucin gene MUC5AC: a consensus cysteine-rich dom

```

;Reference number: S53361; MUID:95126907; PMID:7826332
;Accession: S53365
;Status: nucleic acid sequence not shown; translation not shown
;Molecule type: DNA
;Residues: 1-94 <GUY>
;Cross-references: EMBL:234276; NID:G563372; PIDN:CAA84030.1; PID:G563373
;Experimental source: clone CEL2
;Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1994
;Genetics:
;Gene: GDB:MUC5AC
;Cross-references: GDB:454136; OMIM:158373
;Map position: lp15.5-1p15.5
;Keywords: glycoprotein; tandem repeat

Query Match 1.1%; Score 7; DB 2; Length 94;
Best Local Similarity 100.0%; Pred. No. 51;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 475 PVPTTST 481
|||
b 30 PVPTTST 36

RESULT 32
;Species: ucin 5AC (clone MAR11) - human (fragment)
;Date: 15-Jul-1995 #sequence_revision 01-Sep-1995 #text_change 08-Oct-1999
;Accession: S53367
;Experimental source: Guyonnet-Duperat, V.; Audie, J.P.; Debailleul, V.; Laine, A.; Buisine, M.P.; Gallegue-
biochem. J. 305, 211-219, 1995
;Title: Characterization of the human mucin gene MUC5AC: a consensus cysteine-rich doma
;Reference number: S53361; MUID:95126907; PMID:7826332
;Accession: S53367
;Status: nucleic acid sequence not shown; translation not shown
;Molecule type: mRNA
;Residues: 1-98 <GUY>
;Cross-references: EMBL:234282; NID:G563384; PIDN:CAA84036.1; PID:G563385
;Experimental source: clone MAR11
;Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1994
;Genetics:
;Gene: GDB:MUC5AC
;Cross-references: GDB:454136; OMIM:158373
;Map position: lp15.5-1p15.5
;Keywords: glycoprotein; tandem repeat

Query Match 1.1%; Score 7; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 53;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 475 PVPTTST 481
|||
b 72 PVPTTST 78

RESULT 33
;Species: hypothetical protein B1937_F3_110 - Mycobacterium leprae
;Date: 19-Mar-1997 #sequence_revision 25-Apr-1997 #text_change 28-Jul-2000
;Accession: S72607
;Experimental source: Smith, D.R.; Robison, K.
;Submitted to the EMBL Data Library, November 1993
;Reference number: S72580
;Accession: S72607
;Status: preliminary
;Molecule type: DNA
;Residues: 1-100 <SMI>
;Cross-references: EMBL:U00016; NID:G466961; PIDN:AAA17175.1; PID:G466989
;Genetics:
;Start codon: GTG
;Superfamily: Mycobacterium leprae hypothetical protein B1937_F3_110

Query Match 1.1%; Score 7; DB 2; Length 94;
Best Local Similarity 100.0%; Pred. No. 51;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 475 PVPTTST 481
|||
b 30 PVPTTST 36

RESULT 32
;Species: ucin 5AC (clone MAR11) - human (fragment)
;Date: 15-Jul-1995 #sequence_revision 01-Sep-1995 #text_change 08-Oct-1999
;Accession: S53367
;Experimental source: Guyonnet-Duperat, V.; Audie, J.P.; Debailleul, V.; Laine, A.; Buisine, M.P.; Gallegue-
biochem. J. 305, 211-219, 1995
;Title: Characterization of the human mucin gene MUC5AC: a consensus cysteine-rich doma
;Reference number: S53361; MUID:95126907; PMID:7826332
;Accession: S53367
;Status: nucleic acid sequence not shown; translation not shown
;Molecule type: mRNA
;Residues: 1-98 <GUY>
;Cross-references: EMBL:234282; NID:G563384; PIDN:CAA84036.1; PID:G563385
;Experimental source: clone MAR11
;Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1994
;Genetics:
;Gene: GDB:MUC5AC
;Cross-references: GDB:454136; OMIM:158373
;Map position: lp15.5-1p15.5
;Keywords: glycoprotein; tandem repeat

Query Match 1.1%; Score 7; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 53;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 475 PVPTTST 481
|||
b 72 PVPTTST 78

RESULT 33
;Species: hypothetical protein B1937_F3_110 - Mycobacterium leprae
;Date: 19-Mar-1997 #sequence_revision 25-Apr-1997 #text_change 28-Jul-2000
;Accession: S72607
;Experimental source: Smith, D.R.; Robison, K.
;Submitted to the EMBL Data Library, November 1993
;Reference number: S72580
;Accession: S72607
;Status: preliminary
;Molecule type: DNA
;Residues: 1-100 <SMI>
;Cross-references: EMBL:U00016; NID:G466961; PIDN:AAA17175.1; PID:G466989
;Genetics:
;Start codon: GTG
;Superfamily: Mycobacterium leprae hypothetical protein B1937_F3_110

Query Match 1.1%; Score 7; DB 2; Length 100;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 577 AATSAAA 583
|||||
DB 24 AATSAAA 30

RESULT 34
;Species: probable transcription regulator APE0293 - Aeropyrum pernix (strain KI)
;Date: 20-Aug-1999 #sequence_revision 20-Aug-1999 #text_change 15-Sep-2000
;Accession: D72719
;Experimental source: R.; Kawarabayashi, Y.; Hino, Y.; Horikawa, H.; Yamazaki, S.; Haikawa, Y.; Jin-no, K.; Takah
awa, H.; Takamiya, M.; Masuda, S.; Punahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; K
DNA Res. 6, 83-101, 1999
;Title: Complete genome sequence of an aerobic hyper-thermophilic Crenarchaeon, Aeropyr
;Reference number: A72450; MUID:99310339; PMID:10382966
;Accession: D72719
;Status: preliminary
;Molecule type: DNA
;Residues: 1-101 <KAW>
;Cross-references: DDBJ:AP000059; NID:G5103911; PIDN:BAA79248.1; PID:dl043034; PID:G510
;Experimental source: strain KI
;Genetics:
;Gene: APE0293
;Superfamily: Aeropyrum pernix probable transcription regulator APE0293

Query Match 1.1%; Score 7; DB 2; Length 101;
Best Local Similarity 100.0%; Pred. No. 54;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 98 LHLLEVL 104
|||||
DB 54 LHLLEVL 60

RESULT 35
;Species: probable ribosomal protein S10 - Planobispora rosea
;Date: 24-Oct-1998 #sequence_revision 24-Oct-1998 #text_change 21-Jul-2000
;Accession: S72629
;Experimental source: R.; Socio, M.; Amati, G.; Cappellano, C.; Sarubbi, E.; Monti, F.; Donadio, S.
Mol. Microbiol. 22, 43-51, 1996
;Title: An elongation factor Tu (EF-Tu) resistant to the EF-Tu inhibitor GE2270 in the
;Reference number: S72627; MUID:97055420; PMID:8899707
;Accession: S72629
;Status: nucleic acid sequence not shown; translation not shown
;Molecule type: DNA
;Residues: 1-102 <SOS>
;Cross-references: EMBL:X98830; NID:G1679857; PIDN:CAA67346.1; PID:G1679860
;Experimental source: strain ATCC 53733
;Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1996
;Genetics:
;Gene: rpsJ
;Superfamily: Escherichia coli ribosomal protein S10
;Keywords: protein biosynthesis; ribosome

Query Match 1.1%; Score 7; DB 2; Length 102;
Best Local Similarity 100.0%; Pred. No. 55;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 172 SLMLDL 178
|||||
DB 86 SLMLDL 92

RESULT 36
;Species: ribosomal protein S10 [imported] - Listeria innocua (strain Clip11262)
;Date: 19-Mar-1997 #sequence_revision 25-Apr-1997 #text_change 28-Jul-2000
;Accession: S72607
;Experimental source: Smith, D.R.; Robison, K.
;Submitted to the EMBL Data Library, November 1993
;Reference number: S72580
;Accession: S72607
;Status: preliminary
;Molecule type: DNA
;Residues: 1-100 <SMI>
;Cross-references: EMBL:U00016; NID:G466961; PIDN:AAA17175.1; PID:G466989
;Genetics:
;Start codon: GTG
;Superfamily: Mycobacterium leprae hypothetical protein B1937_F3_110

```

C;Species: *Listeria innocua*  
C;Date: 27-Nov-2001 #sequence\_revision 27-Nov-2001 #text\_change 14-Dec-2001  
A;Accession: AH1779  
A;Status: preliminary  
R;Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.; Bloesker  
D.; Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; Dussurget, O.; Entian, K.D.; Fsihi, H.  
D.; Jones, L.M.; Karst, U.  
Science 294, 849-852, 2001  
A;Authors: Krefit, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; Maitournam, A.; Ma  
ok, C.; Schluter, T.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehland,  
A;Title: Comparative genomics of *Listeria* species.  
A;Reference number: AB1077; MUID:21537279; PMID:11679669  
A;Accession: AH1779  
A;Status: preliminary  
A;Molecule type: DNA  
A;Residues: 1-102 <GLA>  
A;Cross-references: GB:AL592022; PIDN:CA398008.1; PID:g16415318; GSPDB:GN00178  
A;Experimental source: strain C1p11262  
C;Genetics:  
A;Gene: rpsJ  
C;Superfamily: Escherichia coli ribosomal protein S10

Query Match 1.1%; Score 7; DB 2; Length 102;  
Best Local Similarity 100.0%; Pred. No. 55;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 172 SLMLDL 178  
|||||  
DB 86 SLMLDL 92

RESULT 37  
A11403  
ribosomal protein S10 [imported] - *Listeria monocytogenes* (strain EGD-e)  
C;Species: *Listeria monocytogenes*  
C;Date: 27-Nov-2001 #sequence\_revision 27-Nov-2001 #text\_change 14-Dec-2001  
C;Accession: A11403  
R;Glaser, P.; Frangeul, L.; Buchrieser, C.; Amend, A.; Baquero, F.; Berche, P.; Bloesker  
D.; Dominguez-Bernal, G.; Duchaud, E.; Durand, L.; Dussurget, O.; Entian, K.D.; Fsihi, H.  
D.; Jones, L.M.; Karst, U.  
Science 294, 849-852, 2001  
A;Authors: Krefit, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; Maitournam, A.; Ma  
ok, C.; Schluter, T.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; Voss, H.; Wehland,  
A;Title: Comparative genomics of *Listeria* species.  
A;Reference number: AB1077; MUID:21537279; PMID:11679669  
A;Accession: A11403  
A;Status: preliminary  
A;Molecule type: DNA  
A;Residues: 1-102 <GLA>  
A;Cross-references: GB:NC\_003210; PIDN:CAD00711.1; PID:g16412121; GSPDB:GN00177  
A;Experimental source: strain EGD-e  
C;Genetics:  
A;Gene: rpsJ  
C;Superfamily: Escherichia coli ribosomal protein S10

Query Match 1.1%; Score 7; DB 2; Length 102;  
Best Local Similarity 100.0%; Pred. No. 55;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 172 SLMLDL 178  
|||||  
DB 86 SLMLDL 92

RESULT 38  
H72624  
hypothetical protein APE1456 - *Aeropyrum pernix* (strain K1)  
C;Species: *Aeropyrum pernix*  
C;Date: 20-Aug-1999 #sequence\_revision 20-Aug-1999 #text\_change 09-Jun-2000  
C;Accession: H72624  
R;Kawarayashi, Y.; Hino, Y.; Horikawa, H.; Yamazaki, S.; Haikawa, Y.; Jin-no, K.; Takah  
awa, H.; Takamiya, M.; Masuda, S.; Punahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; K  
DNA Res. 6, 83-101, 1999  
A;Title: Complete genome sequence of an aerobic hyper-thermophilic Crenarchaeon, *Aeropyru*

A;Reference number: A72450; MUID:99310339; PMID:10382966  
A;Accession: H72624  
A;Status: preliminary  
A;Molecule type: DNA  
A;Residues: 1-109 <KAW>  
A;Cross-references: DBJ:AP000061; NID:G5104821; PIDN:BAA80454.1; PID:dl044240; PID:gs1  
A;Experimental source: strain K1  
C;Genetics:  
A;Gene: APE1456  
C;Superfamily: *Aeropyrum pernix* hypothetical protein APE1456

Query Match 1.1%; Score 7; DB 2; Length 109;  
Best Local Similarity 100.0%; Pred. No. 58;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 34 AIAAAS 40  
|||||  
DB 10 AIAAAS 16

RESULT 39  
R6DOPI  
acidic ribosomal protein P1 - slime mold (*Dictyostelium discoideum*)  
N;Alternate names: ribosomal phosphoprotein P1  
C;Species: *Dictyostelium discoideum*  
C;Date: 31-Dec-1992 #sequence\_revision 31-Dec-1992 #text\_change 22-Jun-1999  
C;Accession: S14013  
R;Prieto, J.; Candel, E.; Coloma, A.  
Nucleic Acids Res. 19, 1340, 1991  
A;Title: Nucleotide sequence of a cDNA encoding ribosomal acidic phosphoprotein P1 from  
A;Reference number: S14013; MUID:91232920; PMID:2030950  
A;Accession: S14013  
A;Status: nucleic acid sequence not shown; translation not shown  
A;Molecule type: mRNA  
A;Residues: 1-113 <PRI>  
A;Cross-references: EMBL:X56193; NID:G7338; PIDN:CAA39656.1; PID:g7339  
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, November 1990  
C;Superfamily: rat acidic ribosomal protein P1  
C;Keywords: phosphoprotein; protein biosynthesis; ribosome  
F;70-89/Region: alanine-rich

Query Match 1.1%; Score 7; DB 1; Length 113;  
Best Local Similarity 100.0%; Pred. No. 60;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 577 AATSAA 583  
|||||  
DB 78 AATSAA 84

RESULT 40  
S06614  
chorion protein s15 - fruit fly (*Drosophila virilis*)  
C;Species: *Drosophila virilis*  
C;Date: 07-Sep-1990 #sequence\_revision 07-Sep-1990 #text\_change 24-Sep-1998  
C;Accession: S06614  
R;Martinez-Cruzado, J.C.; Swimmer, C.; Penner, M.G.; Kafatos, F.C.  
Genetics 119, 663-677, 1988  
A;Title: Evolution of the autosomal chorion locus in *Drosophila*. I. General organization  
A;Reference number: S06612; MUID:88297142; PMID:3136055  
A;Accession: S06614  
A;Molecule type: DNA  
A;Residues: 1-116 <MAR>  
A;Cross-references: GB:X53421; EMBL:X12636; NID:g9164; PID:g9166  
C;Genetics:  
A;Gene: s15-1  
A;Cross-references: FlyBase:FBgn0013068  
A;Map position: 3 34D-E  
A;Introns: 4/3

Query Match 1.1%; Score 7; DB 2; Length 116;  
Best Local Similarity 100.0%; Pred. No. 62;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

C;Date: 24-Mar-1999 #sequence\_revision 24-Mar-1999 #text\_change 21-Jul-2000

C;Accession: T03242

R;Nantel, A.; Quatrano, R.S.

J. Biol. Chem. 271, 31296-31305, 1996

A;Title: Characterization of three rice basic/leucine zipper factors, including two inh

A;Reference number: Z14856; MUID:97094901; PMID:8940135

A;Accession: T03242

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: mRNA

A;Residues: 1-124 <NAN>

A;Cross-references: EMBL:U04296; NID:G435943; PIDN:AA49557.1; PID:G435944

A;Experimental source: cultivar Nipponbare

C;Genetics:

A;Note: OSZIP-2a

C;Keywords: DNA binding; leucine zipper; transcription regulation

Query Match 1.1%; Score 7; DB 2; Length 124;  
Best Local Similarity 100.0%; Pred. No. 65;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 581 AAATAAP 587

DB 36 AAATAAP 42

#### RESULT 44

T06174

p2E40 protein - barley (fragment)

C;Species: Hordeum vulgare (barley)

C;Date: 30-Apr-1999 #sequence\_revision 30-Apr-1999 #text\_change 11-May-2000

C;Accession: T06174

R;Smith, L.M.; Handley, J.; Li, Y.; Martin, H.; Donovan, L.; Bowles, D.J.

Plant Mol. Biol. 20, 255-266, 1992

A;Title: Temporal and spatial regulation of a novel gene in barley embryos.

A;Reference number: Z15509; MUID:93004478; PMID:1391769

A;Accession: T06174

A;Status: preliminary; translated from GB/EMBL/DBJ

A;Molecule type: DNA

A;Residues: 1-129 <SMI>

A;Cross-references: EMBL:X68600; NID:G296593; PIDN:CAA48592.1; PID:G296594

A;Experimental source: cv. Igri, embryo

C;Genetics:

A;Note: pZE40

Query Match 1.1%; Score 7; DB 2; Length 129;  
Best Local Similarity 100.0%; Pred. No. 68;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 36 AAAASAG 42

DB 13 AAAASAG 19

#### RESULT 45

S20945

ribosomal protein S15a - rape

C;Species: Brassica napus (rape)

C;Date: 03-Feb-1994 #sequence\_revision 03-Feb-1994 #text\_change 13-Aug-1999

C;Accession: S20945; S21254

R;Bonham-Smith, P.C.; Oancia, T.L.; Moloney, M.M.

Plant Mol. Biol. 18, 909-919, 1992

A;Title: Cytoplasmic ribosomal protein S15a from Brassica napus: molecular cloning and d

A;Reference number: S20945; MUID:92256612; PMID:1581568

A;Accession: S20945

A;Molecule type: mRNA

A;Residues: 1-130 <BON>

A;Cross-references: EMBL:X59983; NID:G17862; PIDN:CAA42599.1; PID:G17863

A;Accession: S21254

A;Molecule type: mRNA

A;Residues: 1-130 <BO2>

A;Cross-references: EMBL:X59984

C;Superfamily: Escherichia coli ribosomal protein S8

C;Keywords: protein biosynthesis; ribosome

Y 36 AAAASAG 42

b 77 AAAASAG 83

#### RESULT 41

72524

hypothetical protein APE2167 - Aeropyrum pernix (strain K1)

C;Species: Aeropyrum pernix

C;Date: 20-Aug-1999 #sequence\_revision 20-Aug-1999 #text\_change 20-Aug-1999

C;Accession: B72524

R;Kawarayashi, Y.; Hino, Y.; Horikawa, H.; Yamazaki, S.; Haikawa, Y.; Jin-no, K.; Takah

wa, H.; Takamiya, M.; Masuda, S.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; K

NA Res. 6, 83-101, 1999

A;Title: Complete genome sequence of an aerobic hyper-thermophilic Crenarchaeon, Aeropyz

A;Reference number: A72450; MUID:99310339; PMID:10382966

A;Accession: B72524

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-118 <KAW>

A;Cross-references: DDBJ:AP000063; NID:G5105654; PIDN:BA81178.1; PID:dl044964; PID:G510

A;Experimental source: strain K1

C;Genetics:

A;Gene: APE2167

Query Match 1.1%; Score 7; DB 2; Length 118;  
Best Local Similarity 100.0%; Pred. No. 63;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 537 TLLAAM 543

b 100 TLLAAM 106

#### RESULT 42

AF3085

two component response regulator Atu4306 [imported] - Agrobacterium tumefaciens (strain

C;Species: Agrobacterium tumefaciens

C;Date: 11-Jan-2002 #sequence\_revision 11-Jan-2002 #text\_change 03-Mar-2003

C;Accession: AF3085

R;Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, I

frage, G.; Gillet, W.; Grant, C.; Guenther, D.; Kutuyavin, T.; Levy, R.; Li, M.; McClell

kar, P.; Romero, P.; Zhang, S.

Science 294, 2317-2323, 2001

A;Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm,

ster, E.W.

A;Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58.

A;Reference number: AB2577; MUID:21608550; PMID:11743193

A;Accession: AF3085

A;Status: preliminary

A;Molecule type: DNA

A;Residues: 1-119 <KUR>

A;Cross-references: GB:A3008689; PIDN:AAL45100.1; PID:gl7742768; GSFDB:GN00187

A;Experimental source: strain C58 (Dupont)

C;Genetics:

A;Gene: Atu4306

A;Map position: linear chromosome

C;Superfamily: signal transduction receiver (phosphoacceptor) protein (CheY-like); resp

Query Match 1.1%; Score 7; DB 2; Length 119;  
Best Local Similarity 100.0%; Pred. No. 63;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 265 LASLVEL 271

DB 16 LASLVEL 22

#### RESULT 43

I03242

3-box binding factor 2A - rice (fragment)

C;Species: Oryza sativa (rice)



```

Query Match          1.1%; Score 7; DB 2; Length 130;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 7; Conservative 0; Mismatches 0; Gaps 0;

QY 400 RISVLND 406
DB 3 RISVLND 9

RESULT 46
B8213
Hypothetical protein [imported] - Arabidopsis thaliana
C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 31-Mar-2001
C:Accession: B8213
R:Theologos, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alonso,
Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, T.H.; Dewar, K.;
ansen, N.P.; Hughes, B.; Huizar, L.
Nature 406, 816-820, 2000
A:Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.
C.A.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marziali,
Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.
A:Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon,
ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.
A:Title: Sequence and analysis of chromosome 1 of the plant Arabidopsis.
A:Reference number: A86141; MUID:21016719; PMID:11130712
A:Accession: B8213
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-130 <STO>
A:Cross-references: GB:AE005172; NID:g8439890; PIDN:AA75076.1; GSPDB:GN00141
C:Genetics:
A:Map position: 1
C:Superfamily: Escherichia coli ribosomal protein S8

Query Match          1.1%; Score 7; DB 2; Length 130;
Best Local Similarity 100.0%; Pred. No. 68;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 400 RISVLND 406
DB 3 RISVLND 9

RESULT 47
S60662
Photosystem II protein psbW - Arabidopsis thaliana
N:Alternate names: photosystem II reaction center protein, 6.1K
C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 15-Feb-1996 #sequence_revision 01-Mar-1996 #text_change 09-Sep-1997
C:Accession: S60662
R:Lorkovic, Z.J.; Schroeder, W.P.; Pakrasi, H.B.; Irrgang, K.D.; Herrmann, R.G.; Oelmueller
submitted to the EMBL Data Library, August 1995
A:Description: Characterization of PsbW, the only nuclear-encoded component of the photo
A:Reference number: S60662
A:Accession: S60662
A:Molecule type: DNA
A:Residues: 1-133 <LOR>
A:Cross-references: EMBL:X90769; NID:g950022; PID:g950023
C:Genetics:
A:Gene: psbW
A:Introns: 32/1
C:Keywords: chloroplast; membrane-associated complex; photosynthesis; photosystem II; th

Query Match          1.1%; Score 7; DB 2; Length 133;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 580 SAAATAA 586
DB 62 SAAATAA 68

```

```

RESULT 48
A84710
Photosystem II reaction center 6.1KD protein [imported] - Arabidopsis thaliana
C:Species: Arabidopsis thaliana (mouse-ear cress)
C:Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 02-Feb-2001
C:Accession: A84710
R:Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Unayam, L.; Tallon, L.
euss, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter,
Nature 402, 761-768, 1999
A:Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A:Reference number: A84420; MUID:20083487; PMID:10617197
A:Accession: A84710
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-133 <STO>
A:Cross-references: GB:AE002093; NID:gi946362; PIDN:AA63080.1; GSPDB:GN00139
C:Genetics:
A:Gene: At2g30570
A:Map position: 2

Query Match          1.1%; Score 7; DB 2; Length 133;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 580 SAAATAA 586
DB 62 SAAATAA 68

RESULT 49
D87690
Hypothetical protein CC3558 [imported] - Caulobacter crescentus
C:Species: Caulobacter crescentus
C:Date: 20-Apr-2001 #sequence_revision 20-Apr-2001 #text_change 20-Apr-2001
C:Accession: D87690
R:Nierman, W.C.; Feldblyum, T.V.; Paulsen, I.T.; Nelson, K.E.; Eisen, J.; Heidelberg, J.
B.; Laub, M.T.; DeBoy, R.T.; Dodson, R.J.; Durkin, A.S.; Gwinn, M.L.; Haft, D.H.; Kolo
n, J.; Smolaeva, M.; White, O.; Salzberg, S.L.; Shapiro, L.; Venter, J.C.; Fraser, C.M.
Proc. Natl. Acad. Sci. U.S.A. 98, 4136-4141, 2001
A:Title: Complete Genome Sequence of Caulobacter crescentus.
A:Reference number: A87249; MUID:21173698; PMID:11259647
A:Accession: D87690
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-133 <STO>
A:Cross-references: GB:AE005673; NID:gi3425296; PIDN:AAK25520.1; GSPDB:GN00148
C:Genetics:
A:Gene: CC3558

Query Match          1.1%; Score 7; DB 2; Length 133;
Best Local Similarity 100.0%; Pred. No. 70;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 33 AATAAA 39
DB 14 AATAAA 20

RESULT 50
AB0331
Sigma E factor regulatory protein rseC [imported] - Yersinia pestis (strain CO92)
C:Species: Yersinia pestis
C:Date: 02-Nov-2001 #sequence_revision 02-Nov-2001 #text_change 09-Nov-2001
C:Accession: AB0331
R:Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, M.T.G.; Prentice, M.B.
geno-Tarazga, A.M.; Chillingworth, T.; Cronin, A.; Davies, R.M.; Davis, P.; Dougan, G.;
il, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barrell,
Nature 413, 523-527, 2001
A:Title: Genome sequence of Yersinia pestis, the causative agent of plague.
A:Reference number: AB0001; MUID:21470413; PMID:11586360
A:Accession: AB0331

```

;Status: preliminary  
 ;Molecule type: DNA  
 ;Residues: 1-151 <KUR>  
 ;Cross-references: GB:AL590842; PIDN:CAC92953.1; PID:G15980692; GSPDB:GN00175  
 ;Genetics:  
 ;Gene: rseC  
 ;Superfamily: Escherichia coli sigma-E factor regulatory protein rseC

Query Match 1.1%; Score 7; DB 2; Length 151;  
 Best Local Similarity 100.0%; Pred. No. 78;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

214 LTPLVGL 220  
 |||||  
 83 LTPLVGL 89

Search completed: February 5, 2004, 16:06:43  
 Job time : 25 secs

GenCore version 5.1.1.6  
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protein - protein search, using sw model

on: February 5, 2004, 15:51:41 ; Search time 17 seconds

(without alignments)  
1806.379 Million cell updates/sec

le: US-09-989-279-229

fect score: 653

rence: 1 MKLLMQVTVHHHTWNAILLP.....ISEPYIIQHTTKKQVQTOI 653

ring table: OLIGO  
Gapop 60.0 , Gapext 60.0

arched: 127863 seqs, 47026705 residues

rd size: 6

tal number of hits satisfying chosen parameters: 1629

nimum DB seq length: 0

ximum DB seq length: 2000000000

st-processing: Listing first 150 summaries

tabase: SwissProt\_41.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

sult	No.	Score	Query Match	Length	DB ID	Description
1	9	1.4	256	1	ATPF HUMAN	P24539 homo sapien
2	8	1.2	256	1	ATPF MOUSE	Q9CQ77 mus musculus
3	8	1.2	256	1	ATPF RAT	P19511 rattus norv
4	8	1.2	440	1	GAT4 MOUSE	Q08369 mus musculus
5	8	1.2	440	1	GAT4 RAT	P46152 rattus norv
6	8	1.2	442	1	GAT4 HUMAN	P43694 homo sapien
7	8	1.2	555	1	MCRA METPE	P12971 methanother
8	8	1.2	732	1	DD35 CABEL	Q9BKG8 caenorhabdi
9	8	1.2	878	1	SYL TREPA	Q83595 treponema p
10	8	1.2	926	1	RPWI ARATH	Q93214 arabidopsis
11	8	1.2	1111	1	MATE MOUSE	Q9RLM5 mus musculus
12	8	1.2	2054	1	YCP2 PINTH	P41653 pinus thumb
13	8	1.2	3414	1	POIG LANVT	P39837 l genome po
14	7	1.1	40	1	ANPB MTOAE	P20617 myxocephal
15	7	1.1	45	1	ANPB MYOSC	P04368 myxocephal
16	7	1.1	100	1	Y638 MYCLE	Q49769 mycobacteri
17	7	1.1	102	1	RS10 LISMO	Q927K6 listeria mo
18	7	1.1	102	1	RS10 PLARO	P72232 planobisp
19	7	1.1	102	1	RS10 STRCO	Q910el streptomyce
20	7	1.1	113	1	RLAI DICDI	P22684 dictyosteli
21	7	1.1	116	1	CHU5 BROVI	P3424 drosophila
22	7	1.1	123	1	RSIA ARATH	P42798 arabidopsis
23	7	1.1	129	1	RSIA BRANA	Q00332 brassica na
24	7	1.1	130	1	RSIA DICDI	P46793 dictyosteli
25	7	1.1	130	1	RS22 AGABI	P46792 agarcus bi
26	7	1.1	173	1	RUVU BRUME	Q9YIV7 bruceella me
27	7	1.1	192	1	HIS5 AZOBR	P16785 azospirillum
28	7	1.1	199	1	Y002 RHIME	Q927fi rhizobium m
29	7	1.1	200	1	PRL BRONT	P33091 proctoterus
30	7	1.1	213	1	RLA4 RAT	Q33507 rattus norv
31	7	1.1	216	1	LEF2 NPVL	P36869 lymantria d
32	7	1.1	230	1	EF1B BETUV	P48198 beta vulgar
33	7	1.1	230	1	HXA7 HUMAN	P31268 homo sapien

P03733 bacterioph  
Q82202 salmonella  
Q821K5 salmonella  
Q9AB80 caulobacter  
Q921R5 helicobacte  
Q25290 helicobacte  
Q53143 rhodobacter  
P39582 bacillus su  
P05317 saccharomyc  
P31311 mus musculu  
P45527 escherichia  
Q07352 homo sapien  
P23950 mus musculu  
P17431 rattus norv  
P18264 drosophila  
Q28335 archaeoglob  
Q00303 homo sapien  
Q8P9C0 xanthomonas  
P52655 homo sapien  
Q42477 brachydanio  
P13258 methanosarc  
Q975X3 sulfolobus  
Q43435 homo sapien  
Q29995 archaeoglob  
P41971 mus musculu  
Q9aut6 thizobium t  
P49920 oviz aries  
Q9P278 campylobact  
Q10666 caenorhabdi  
Q921J1 helicobacte  
Q25360 helicobacte  
P52166 caenorhabdi  
Q01836 listeria in  
P00634 escherichia  
P09085 drosophila  
P21948 escherichia  
P13147 serratia ma  
P35483 pseudomonas  
P21171 listeria mo  
Q8YWF0 anabaena sp  
P48454 homo sapien  
P34528 caenorhabdi  
P48455 mus musculu  
Q92058 gallus gall  
Q93487 bos taurus  
Q23486 felis siive  
P05186 homo sapien  
P05242 mus musculu  
P08289 rattus norv  
P06861 homo sapien  
P10696 homo sapien  
P05187 homo sapien  
P05188 homo sapien  
Q43255 zea mays (m  
Q9uew8 homo sapien  
Q43078 pisum sativ  
P23057 phasea bras  
P42846 saccharomyc  
P48021 campotheca  
P12541 human adeno  
P39768 drosophila  
P06129 escherichia  
P37409 salmonella  
Q01617 drosophila  
Q9rsp3 deinococcus  
Q82B3 salmonella  
Q82196 salmonella  
Q829W7 versinia pe  
P28826 rattus norv  
P42434 bacillus su  
P15143 gallus gall  
P14859 homo sapien  
Q29076 sus scrofa

107 1.1 776 1 CUL1\_HUMAN  
108 1.1 776 1 CUL1\_MOUSE  
109 1.1 781 1 TL22\_CHICK  
110 1.1 793 1 TL21\_CHICK  
111 1.1 810 1 SYFB\_SYNY3  
112 1.1 834 1 TF1B\_MOUSE  
113 1.1 855 1 ENV\_HVIA2  
114 1.1 871 1 MGR6\_RAT  
115 1.1 906 1 ADL22\_HUMAN  
116 1.1 908 1 GLR2\_CABEL  
117 1.1 917 1 VGLB\_HSVB2  
118 1.1 962 1 GLR1\_CABEL  
119 1.1 968 1 SLA2\_YEAST  
120 1.1 1009 1 POL\_SIVCB  
121 1.1 1010 1 UFD2\_SCHPO  
122 1.1 1011 1 CAPT\_SYNEL  
123 1.1 1042 1 RAG1\_RABIT  
124 1.1 1047 1 POL\_SIVAI  
125 1.1 1053 1 HMDE\_SCHPO  
126 1.1 1061 1 POL\_SIVAT  
127 1.1 1082 1 SC73\_SCHPO  
128 1.1 1180 1 EK5B\_ECOLI  
129 1.1 1233 1 MUSA\_HUMAN  
130 1.1 1392 1 CND1\_MOUSE  
131 1.1 1505 1 CUT1\_HUMAN  
132 1.1 1563 1 POLG\_TURVQ  
133 6 0.9 22 1 BS23\_SERPL  
134 6 0.9 37 1 ANP3\_PSEAM  
135 6 0.9 42 1 IM04\_DROME  
136 6 0.9 65 1 B912\_SCHCO  
137 6 0.9 65 1 YNOL\_RHIFR  
138 6 0.9 71 1 YE34\_ANASP  
139 6 0.9 72 1 R820\_AERYH  
140 6 0.9 72 1 R820\_AERSO  
141 6 0.9 75 1 TRBK\_AGTU  
142 6 0.9 80 1 R31B\_STRMU  
143 6 0.9 82 1 S61B\_ARATH  
144 6 0.9 85 1 ANP4\_PSEAM  
145 6 0.9 85 1 BM02\_HUMAN  
146 6 0.9 85 1 OAG1\_VIBCH  
147 6 0.9 86 1 PAK1\_ANASP  
148 6 0.9 86 1 PSAK\_MASIA  
149 6 0.9 88 1 RS15\_YEREN  
150 6 0.9 91 1 ANPX\_PSEAM

## ALIGNMENTS

RESULT 1  
ATPF\_HUMAN  
ID ATPF\_HUMAN STANDARD; PRT; 256 AA.  
AC P24539; Q9BQ69; Q9BRU8;  
DT 01-MAR-1992 (Rel. 21, Created)  
DT 28-FEB-2003 (Rel. 41, Last sequence update)  
DT 15-SEP-2003 (Rel. 42, Last annotation update)  
DE ATP synthase B chain, mitochondrial precursor (EC 3.6.3.14).  
GN ATP5F1.  
OS Homo sapiens (Human).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
OX NCBI\_TaxID=9606;  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=91337033; PubMed=1931354;  
RA Higuchi T., Tsurumi C., Osaka F., Kawamura Y., Tsujita H.,  
RA Yoshitara Y., Tani I., Tanaka K., Ichihara A.;  
RT "Molecular cloning of cDNA for the import precursor of human subunit  
RT B of H(+)-ATP synthase in mitochondria."  
RL Biochem. Biophys. Res. Commun. 178:1014-1020(1991).  
RN [2]  
RP SEQUENCE FROM N.A.  
RP Coville G.;

Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.  
[3]  
SEQUENCE FROM N.A.  
TISSUE=Brain;  
MEDLINE=22388257; PubMed=12477932;  
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,  
RA Klausner R.D., Collins P.S., Wagner L., Shenmen C.M., Schuler G.D.,  
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Haieh F.,  
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
RA Stapleton M., Soares M.B., Bonaldo M.P., Casavant T.L., Scheetz T.E.,  
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,  
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,  
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
RA Pahey J., Helton E., Kettner M., Madan A., Rodriguez S., Sanchez A.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smallus D.E.,  
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;  
RT "Generation and initial analysis of more than 15,000 full-length  
RT human and mouse cDNA sequences."  
RT Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
CC -1- CATALYTIC ACTIVITY: ATP + H(2)O + H(+) (in) = ADP + phosphate +  
CC H(+) (out).  
CC -1- SUBUNIT: P-TYPE ATPASES HAVE 2 COMPONENTS, CF(1) - THE CATALYTIC  
CC CORE - AND CF(0) - THE MEMBRANE PROTON CHANNEL. CF(1) HAS FIVE  
CC SUBUNITS: ALPHA(3), BETA(3), GAMMA(1), DELTA(1), EPSILON(1). CF(0)  
CC HAS THREE MAIN SUBUNITS: A, B AND C.  
CC -1- SUBCELLULAR LOCATION: Mitochondrial.  
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CC -----  
DR EMBL; X60221; CAA42782.1; -;  
DR EMBL; AL390195; CAC36042.1; -;  
DR EMBL; BC005366; AAH05366.1; -;  
DR EMBL; BC005960; AAH05960.1; -;  
DR EMBL; BC016350; AAH16350.1; -;  
DR PIR; JQ1144; JQ1144.  
DR Genew; HGNC:840; ATP5F1.  
DR MIM; 603270; -;  
DR GO; GO:0005759; C-mitochondrial matrix; TAS.  
DR GO; GO:0005936; F-hydrogen-transporting two-sector ATPase act. . .; TAS.  
KW Hydrogen ion transport; CF(0); Mitochondrion; Transloc peptide;  
KW Polymorphism.  
FT TRANSIT 1 42 MITOCHONDRION.  
FT CHAIN 43 256 ATP SYNTHASE B CHAIN.  
FT VARIANT 152 152 T -> N (in dbSNP:1264895).  
FT /FTID=VAR\_013176.  
FT CONFLICT 84 84 I -> V (IN REF. 1).  
FT CONFLICT 91 91 E -> G (IN REF. 3; AAH05960).  
FT CONFLICT 194 194 K -> R (IN REF. 3; AAH05960).  
SQ SEQUENCE 256 AA; 28908 MW; 743B1C54BFFBEBD CRC64;  
Query Match 1.4%; Score 9; DB 1; Length 256;  
Best Local Similarity 100.0%; Pred. No. 0.53;  
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 580 SAAATAAPS 588  
Db 8 SAAATAAPS 16  
RESULT 2  
ATPF\_MOUSE

ID ATPF MOUSE STANDARD; PRT; 256 AA.  
 IC Q90CQ7;  
 DT 28-FEB-2003 (Rel. 41, Created)  
 DE 28-FEB-2003 (Rel. 41, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE ATP synthase B chain, mitochondrial precursor (EC 3.6.3.14).  
 IN AT95F1.  
 XS Mus musculus (Mouse).  
 XC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 XC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 XX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 IC STRAIN=C57BL/6J; TISSUE=Brain, and Embryo;  
 XX MEDLINE=21085660; PubMed=11217851;  
 RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,  
 RA Aizawa K., Izawa M., Nishikuni Y., Konno H., Adachi J., Fukuda S.,  
 RA Aizawa K., Izawa M., Nishikuni Y., Konno H., Adachi J., Fukuda S.,  
 RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,  
 RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,  
 RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,  
 RA Kuehl P., Lewis S., Matsuo Y., Nikaide I., Pesole G., Quackenbush J.,  
 RA Schirral L.M., Staulli F., Suzuki R., Tomita M., Wagner L., Washio T.,  
 RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli K., Barsh G.,  
 RA Blake J., Bojelli D., Bojunga N., Carninci P., de Bonaldo M.F.,  
 RA Brownstein M.J., Balt C., Fletcher C., Fujita M., Gariboldi M.,  
 RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,  
 RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,  
 RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,  
 RA Sasaki H., Sato K., Schoenbach C., Seva T., Shibata Y., Storch K.-F.,  
 RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,  
 RA Wyshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Koutsuki S.,  
 RA Hayashizaki Y.;  
 RA "Functional annotation of a full-length mouse cDNA collection";  
 RL Nature 409:685-690(2001).  
 CC -1- CATALYTIC ACTIVITY: ATP + H(2)O + H(+) (In) = ADP + phosphate +  
 H(+) (Out).  
 CC CORE - AND CF(0) - THE MEMBRANE PROTON CHANNEL, CF(1) HAS FIVE  
 CC SUBUNITS: ALPHA(3), BETA(3), GAMMA(1), DELTA(1), EPSILON(1). CF(0)  
 CC HAS THREE MAIN SUBUNITS: A, B AND C.  
 CC -1- SUBCELLULAR LOCATION: Mitochondrial.  
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 CC  
 DR EMBL; AK002960; BAB22481.1; -;  
 DR EMBL; AK011312; BAB27538.1; -;  
 DR MGD; MGI:1100495; At9p3f1.  
 KW Hydrogen ion transport; CF(0); Mitochondrion; Transit peptide.  
 FT TRANSIT 1 42 MITOCHONDRION (BY SIMILARITY).  
 FT CHAIN 43 256 ATP SYNTHASE B CHAIN.  
 SQ SEQUENCE 256 AA; 28949 MW; 6B385A4B56CB784 CRC64;  
 Query Match 1.2%; Score 8; DB 1; Length 256;  
 Best Local Similarity 100.0%; Pred. No. 5.4;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 580 SAATAAP 587  
 DB 8 SAATAAP 15  
 RESULT 3  
 ATPF RAT  
 ID ATPF RAT STANDARD; PRT; 256 AA.  
 AC P19511.  
 DT 01-FEB-1991 (Rel. 17, Created)

DT 01-FEB-1991 (Rel. 17, Last sequence update)  
 DE 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE ATP synthase B chain, mitochondrial precursor (EC 3.6.3.14).  
 GN AT95F1 OR AT95F.  
 OS Rattus norvegicus (Rat).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
 OX NCBI\_TaxID=10116;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RP MEDLINE=90274656; PubMed=2140936;  
 RA Tsurumi C., Yoshihara Y., Osaka F., Yamada F., Tani I., Higuti T.,  
 RA Shimizu M., Oeda K., Ohkawa H., Toda H., Kakuno T., Sakiyama F.,  
 RA Kumatori A., Tanaka K., Ichihara A.;  
 RT "cDNA cloning and sequencing for the import precursor of subunit B in  
 RT H(+)-ATP synthase from rat mitochondria";  
 RL Biochem. Biophys. Res. Commun. 189:136-142(1990).  
 CC -1- CATALYTIC ACTIVITY: ATP + H(2)O + H(+) (In) = ADP + phosphate +  
 H(+) (Out).  
 CC CORE - AND CF(0) - THE MEMBRANE PROTON CHANNEL, CF(1) HAS FIVE  
 CC SUBUNITS: ALPHA(3), BETA(3), GAMMA(1), DELTA(1), EPSILON(1). CF(0)  
 CC HAS THREE MAIN SUBUNITS: A, B AND C.  
 CC -1- SUBCELLULAR LOCATION: Mitochondrial.  
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 CC  
 DR EMBL; M35052; AAA42187.1; -;  
 DR PIR; A35340; A35340.  
 KW Hydrogen ion transport; CF(0); Mitochondrion; Transit peptide.  
 FT TRANSIT 1 42 MITOCHONDRION.  
 FT CHAIN 43 256 ATP SYNTHASE B CHAIN.  
 SQ SEQUENCE 256 AA; 28869 MW; 8E27538B6DF682B5 CRC64;  
 Query Match 1.2%; Score 8; DB 1; Length 256;  
 Best Local Similarity 100.0%; Pred. No. 5.4;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 580 SAATAAP 587  
 DB 8 SAATAAP 15  
 RESULT 4  
 GAT4 MOUSE  
 ID GAT4 MOUSE STANDARD; PRT; 440 AA.  
 AC Q08369; P97491; Q9QZK4;  
 DT 01-OCT-1994 (Rel. 30, Created)  
 DT 15-JUL-1998 (Rel. 36, Last sequence update)  
 DT 16-OCT-2001 (Rel. 40, Last annotation update)  
 DE Transcription factor GATA-4 (GATA binding factor-4).  
 GN GATA4 OR GATA-4.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 OX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RP MEDLINE=93204969; PubMed=8455608;  
 RA Arceri R.J., King A.A., Simon M.C., Orkin S.H., Wilson D.B.;  
 RA "Mouse GATA-4: a retinoic acid-inducible GATA-binding transcription  
 RA factor expressed in endodermally derived tissues and heart";  
 RL Mol. Cell. Biol. 13:2235-2246(1993).  
 RN [2]  
 RP IDENTIFICATION OF PROBABLE FRAMESHIFTS.  
 RP MEDLINE=94365018; PubMed=8083222.  
 RX Laverriere A.C., Macneil C., Mueller C., Poelmann R.E.,

RA Burch J.B.E., Evans T.;  
 RT "GATA-4/5/6, a subfamily of three transcription factors transcribed  
 RL in developing heart and gut.";  
 RJ J. Biol. Chem. 269:23177-23184 (1994).  
 RN [3]  
 RP SEQUENCE FROM N.A.  
 RL Morrissey E.E., Parmacek M.S.;  
 RL Submitted (JAN-1997) to the EMBL/GenBank/DBJ databases.  
 RN [4]  
 RP SEQUENCE FROM N.A.  
 RL STRAIN=C57BL/6 X DBA/2; TISSUE=Heart;  
 RL Katsuno F., Motoshashi H., Yamamoto M.;  
 RL Submitted (AUG-1999) to the EMBL/GenBank/DBJ databases.  
 RN [5]  
 RP CHARACTERIZATION.  
 RX MEDLINE=95234034; PubMed=7717974;  
 RA Bielineska M., Wilson D.B.;  
 RA Regulation of J6 gene expression by transcription factor GATA-4.";  
 RL Biochem. J. 307:183-189 (1995).  
 CC -!- FUNCTION: TRANSCRIPTIONAL ACTIVATOR. BINDS TO THE CONSENSUS  
 CC SEQUENCE 5'-AGATAG-3'. REGULATES THE EXPRESSION OF THE HSP47/J6  
 CC GENE IN F9 CELLS.  
 CC -!- SUBCELLULAR LOCATION: Nuclear.  
 CC -!- TISSUE SPECIFICITY: HEART, INTESTINE, LIVER, PRIMITIVE ENDODERM  
 CC AND GONADS.  
 CC -!- INDUCTION: By retinoic acid.  
 CC -!- SIMILARITY: Contains 2 GATA-type zinc fingers.  
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 CC  
 DR EMBL; M98339; AAA37662.1; ALT\_SEQ.  
 DR EMBL; U85046; AAB42015.1; -.  
 DR EMBL; AF179424; AAD55266.1; -.  
 DR HSSP; P17679; 1GNF.  
 DR TRANSFAC; T02532; -.  
 DR MGD; MGI:95664; Gata4.  
 DR GO; GO:0005634; C:nucleus; IDA.  
 DR GO; GO:0007507; F:heart development; IMP.  
 DR InterPro; IPR000679; Znf\_GATA.  
 DR Pfam; PF05349; GATA-N; 1.  
 DR Pfam; PF03320; GATA; 2.  
 DR PRINTS; PR00619; GATAZNFINGER.  
 DR SMART; SM00401; ZNF\_GATA; 2.  
 DR PROSITE; PS00344; GATA\_ZN\_FINGER\_1; 2.  
 DR PROSITE; PS01114; GATA\_ZN\_FINGER\_2; 2.  
 KW Transcription regulation; Activator; DNA-binding; Zinc-finger;  
 KW Nuclear protein.  
 FT ZN\_FING 216 240 GATA-TYPE 1.  
 FT ZN\_FING 270 294 GATA-TYPE 2.  
 FT DOMAIN 118 126 POLY-ALA.  
 FT DOMAIN 174 181 POLY-ALA.  
 FT DOMAIN 275 279 POLY-THR.  
 FT DOMAIN 354 359 POLY-SER.  
 FT CONFLICT 29 30 SA -> RT (IN REF. 1).  
 FT CONFLICT 385 401 SSVCPRALHPSGAVCS -> FSSVSGHGSPHPLVLSAL  
 FT (IN REF. 1 AND 4).  
 SQ SEQUENCE 440 AA; 44543 MW; BBCC594AB5AB86DC CRC64;

Query Match 1.2%; Score 8; DB 1; Length 440;

Best Local Similarity 100.0%; Pred. No. 8.7; Mismatches 0; Indels 0; Gaps 0;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 36 AAAASAGP 43  
 |||||  
 Db 176 AAAASAGP 183

RESULT 5  
 GATA4 RAT  
 ID GATA4 RAT STANDARD; PRT; 440 AA.  
 AC P46152;  
 DT 01-NOV-1995 (Rel. 32, Created)  
 DT 01-NOV-1995 (Rel. 32, Last sequence update)  
 DT 16-OCT-2001 (Rel. 40, Last annotation update)  
 DE Transcription factor GATA-4 (GATA binding factor-4) (DNA binding  
 DE protein GATA-GT2).  
 GN GATA4.  
 OS Rattus norvegicus (Rat).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.  
 OX NCBI\_TaxID=101116;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=Wistar; TISSUE=Stomach;  
 RX MEDLINE=9408504; PubMed=8248184;  
 RA Tamura S., Wang X.H., Maeda M., Futai M.;  
 RA "Gastric DNA-binding proteins recognize upstream sequence motifs of  
 RT parietal cell-specific genes.";  
 RL Proc. Natl. Acad. Sci. U.S.A. 90:10876-10880 (1993).  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=Wistar; TISSUE=Stomach;  
 RX MEDLINE=94240185; PubMed=8183957;  
 RA Tamura S., Wang X.H., Maeda M., Futai M.;  
 RA Proc. Natl. Acad. Sci. U.S.A. 91:4609-4609 (1994).  
 CC -!- FUNCTION: TRANSCRIPTIONAL ACTIVATOR. BINDS TO THE UPSTREAM  
 CC SEQUENCE OF THE H(+)/K(+)-ATPASE BETA GENE AND TO A SEQUENCE  
 CC CONTAINING THE GATA MOTIF. INVOLVED IN GENE REGULATION  
 CC SPECIFICALLY IN THE GASTRIC EPITHELIUM.  
 CC -!- SUBCELLULAR LOCATION: Nuclear.  
 CC -!- TISSUE SPECIFICITY: EXPRESSED PREDOMINANTLY IN GASTRIC MUCOSA AND  
 CC AT MUCH LOWER LEVELS IN THE INTESTINE. ALSO EXPRESSED IN TESTIS.  
 CC -!- SIMILARITY: Contains 2 GATA-type zinc fingers.  
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 CC  
 DR EMBL; L22761; AAA16159.1; -.  
 DR PIR; I61183; I61183.  
 DR HSSP; P17679; 1GNF.  
 DR TRANSFAC; T02716; -.  
 DR InterPro; IPR000679; Znf\_GATA.  
 DR Pfam; PF05349; GATA-N; 1.  
 DR Pfam; PF00320; GATA; 2.  
 DR PRINTS; PR00619; GATAZNFINGER.  
 DR SMART; SM00401; ZNF\_GATA; 2.  
 DR PROSITE; PS00344; GATA\_ZN\_FINGER\_1; 2.  
 DR PROSITE; PS01114; GATA\_ZN\_FINGER\_2; 2.  
 KW Transcription regulation; Activator; DNA-binding; Zinc-finger;  
 KW Nuclear protein.  
 FT ZN\_FING 216 240 GATA-TYPE 1.  
 FT ZN\_FING 270 294 GATA-TYPE 2.  
 FT DOMAIN 118 126 POLY-ALA.  
 FT DOMAIN 174 181 POLY-ALA.  
 FT DOMAIN 275 279 POLY-THR.  
 FT DOMAIN 353 358 POLY-SER.  
 SQ SEQUENCE 440 AA; 44597 MW; 7C594FA95080AD43 CRC64;

Query Match 1.2%; Score 8; DB 1; Length 440;

Best Local Similarity 100.0%; Pred. No. 8.7; Mismatches 0; Indels 0; Gaps 0;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 36 AAAASAGP 43  
 |||||  
 Db 176 AAAASAGP 183

```

RESULT 6
GATA4 HUMAN
ID GAT4 HUMAN STANDARD; PRT; 442 AA.
AC P43694;
DT 01-NOV-1995 (Rel. 32, Created)
DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Transcription factor GATA-4 (GATA binding factor-4).
EN GATA4.
NS Homo sapiens (Human).
DC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
DC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
DX NCBI_TaxID=9606;
XN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Heart;
RX MEDLINE=95237613; PubMed=7721094;
RA Huang W.Y., Cukerman E., Liew C.C.;
RT "Identification of a GATA motif in the cardiac alpha-myosin
RT heavy-chain-encoding gene and isolation of a human GATA-4 cDNA.";
RL Gene 155:219-223(1995).
CC -!- FUNCTION: TRANSCRIPTIONAL ACTIVATOR. BINDS TO THE CONSENSUS
CC SEQUENCE 5'-AGATAG-3'. MAY REGULATE A SET OF CARDIAC-SPECIFIC
CC GENES AND PLAY A CRUCIAL ROLE IN CARDIOGENESIS.
CC -!- SUBCELLULAR LOCATION: Nuclear.
CC -!- SIMILARITY: Contains 2 GATA-type zinc fingers.
CC
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CC
CC EMBL; J34357; AAA58496.1; -.
CC DR HSSP; P17679; IGNP.
CC DR TRANSFAC; T02687; -.
CC DR Genew; HGNC:4173; GATA4.
CC DR MIM; 600576; -.
CC DR GO; GO:0007275; P.development; TAS.
CC DR InterPro; IPR000679; Znf_GATA.
CC DR Pfam; PF05349; GATA-N; 1.
CC DR Pfam; PF00320; GATA; 2.
CC DR PRINTS; PR00619; GATAZNFINGER.
CC DR SMART; SM00401; Znf_GATA; 2.
CC DR PROSITE; PS00344; GATA_ZN_FINGER_1; 2.
CC DR PROSITE; PS01114; GATA_ZN_FINGER_2; 2.
CX Transcription regulation; Activator; DNA-binding; Zinc-finger;
KW Nuclear protein.
FT ZN_FING 217 242 GATA-TYPE 1.
FT ZN_FING 271 295 GATA-TYPE 2.
FT ZN_FING 118 126 POLY-ALA.
FT DOMAIN 174 181 POLY-ALA.
FT DOMAIN 276 280 POLY-THR.
SQ SEQUENCE 442 AA; 44626 MW; 06F51819700EC23E CRC64;

Query Match 1.2%; Score 8; DB 1; Length 442;
Best Local Similarity 100.0%; Pred. No. 8.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 36 AAAASAGP 43
DB 176 AAAASAGP 183

RESULT 7
MCRA_MTEFE
ID MCRA_MTEFE STANDARD; PRT; 555 AA.
AC P12971;
DT 01-OCT-1989 (Rel. 12, Created)
DT 01-OCT-1989 (Rel. 12, Last sequence update)

28-FEB-2003 (Rel. 41, Last annotation update)
Methyl-coenzyme M reductase alpha subunit (EC 2.8.4.1) (Coenzyme-B
sulfoethylthiotransferase alpha).
MCRA.
OS Methanothermobacter fervidus.
OC Archaea; Euryarchaeota; Methanobacteria; Methanobacteriales;
OC Methanothermobacter; Methanothermobacter.
OX NCBI_TaxID=2180;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=89008091; PubMed=3170483;
RA Weil C.F., Cram D.S., Sherif B.A., Reeve J.N.;
RT "Structure and comparative analysis of the genes encoding component C
RT of methyl coenzyme M reductase in the extremely thermophilic
RT archaeobacterium Methanothermobacter fervidus.";
RL J. Bacteriol. 170:4718-4726(1988).
CC -!- FUNCTION: Reduction of methyl-coenzyme M (2-[methylthio]
CC ethanesulfonic acid) with 7-mercaptoheptanoylthreonine phosphate
CC to methane and an heterodisulfide.
CC -!- CATALYTIC ACTIVITY: 2-(methylthio)ethanesulfonate (methyl-CoM) +
CC N-(7-mercaptoheptanoyl)threonine 3-O-phosphate (Coenzyme B) = CoM-
CC S-S-CoB + methane.
CC -!- COFACTOR: Binds 2 coenzyme P430 noncovalently per hexamer.
CC Coenzyme P430 is a yellow nickel porphyrinoid (by similarity).
CC -!- PATHWAY: Methanogenesis; last step.
CC -!- SUBUNIT: HEXAMER OF TWO ALPHA, TWO BETA, AND TWO GAMMA CHAINS.
CC
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CC
CC EMBL; J03375; AAA72197.1; -.
CC DR HSSP; P11558; IMRO.
CC DR InterPro; IPR003183; MCR_alpha.
CC DR Pfam; PF02449; MCR_alpha; 1.
CC DR Pfam; PF02745; MCR_alpha_N; 1.
CC DR Methanogenesis; Transferase; Nickel; Methylation.
CC FT METAL 150 150 NICKEL (BY SIMILARITY).
CC FT MOD_RES 260 260 METHYLATION (BY SIMILARITY).
CC FT MOD_RES 273 273 METHYLATION (BY SIMILARITY).
CC SQ SEQUENCE 555 AA; 61550 MW; C2517AB56DA53D72 CRC64;

Query Match 1.2%; Score 8; DB 1; Length 555;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 33 AAAAAAAS 40
DB 406 AAAAAAAS 413

RESULT 8
DD35_CABEL
ID DD35_CABEL STANDARD; PRT; 732 AA.
AC Q9BK08;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Probable ATP-dependent helicase DDX35 homolog.
EN Y67D2.6.
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
OC Rhabditidae; Peloderinae; Caenorhabditis.
OX NCBI_TaxID=6239;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Bristol N2;
RA Waterston R.;
RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.

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CC  -!- SIMILARITY: BELONGS TO THE DEAD BOX HELICASE FAMILY. DEAH
CC  SUBFAMILY.
CC  -----
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CC  -----
CC  EMBL: AC091125; AAK27888.1; -
CC  WormPep; Y67D2.6; CE27311.
CC  InterPro: IPR001410; DEAD.
CC  InterPro: IPR002484; DEAD box.
CC  InterPro: IPR001650; Helicase_C.
CC  Pfam: PF04408; HA2; 1.
CC  Pfam: PF00271; helicase_C; 1.
CC  SMART: SM00487; DEXDC; 1.
CC  SMART: SM00490; HELIC; 1.
CC  PROSITE: PS00690; DEAD-ATP-HELICASE; 1.
CC  KW Hypothetical protein; Hydrolase; Helicase; ATP-binding.
CC  NP BIND 100 107 ATP (POTENTIAL).
CC  SITE 198 201 DEAD BOX.
CC  SITE 198 201
CC  SQ SEQUENCE 732 AA; 82543 MW; E64171070B43BF41 CRC64;

Query Match 1.2%; Score 8; DB 1; Length 732;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 576 PAATSAAA 583
DB 721 PAATSAAA 728
|||||

RESULT 9
SYL TREPA STANDARD; PRT; 878 AA.
AC O83595;
DT 15-DEC-1998 (Rel. 37, Created)
DT 15-DEC-1998 (Rel. 37, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Leucyl-tRNA synthetase (EC 6.1.1.4) (Leucine-tRNA ligase) (LeuRS).
GN LEUS OR TP0586.
OS Treponema pallidum.
OC Bacteria; Spirochaetes; Spirochaetales; Spirochaetaceae; Treponema.
OX NCBI_TaxID:160;
RN [1]_TaxID:160;
RP SEQUENCE FROM N.A.
RC STRAIN=Nichols;
RX MEDLINE=98332770; PubMed=9665876;
RA Fraser C.M., Norris S.J., Weinstein G.M., White O., Sutton G.G.,
RA Dodson R., Gwinn M., Hickey E.K., Clayton R., Ketchum K.A.,
RA Sodergren E., Hardam J.M., McLeod M.P., Salzberg S., Peterson J.,
RA Khalak H., Richardson D., Howell J.K., Chidambaram M., Utterback T.,
RA McDonald L., Artisch P., Bowman C., Cotton M.D., Fujii C., Garland S.,
RA Hatch B., Horst K., Roberts K., Sandusky M., Weidman J., Smith H.O.,
RA Venter J.C.;
RT "Complete genome sequence of Treponema pallidum, the syphilis
RT spirochete.";
RL Science 281:375-388(1998).
CC -!- CATALYTIC ACTIVITY: ATP + L-leucine + tRNA(Leu) = AMP +
CC diposphate + L-leucyl-tRNA(Leu).
CC -!- SUBCELLULAR LOCATION: Cytoplasmic.
CC -!- SIMILARITY: Belongs to class-I aminoacyl-tRNA synthetase family.
CC -----
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CC  EMBL: AB001234; AAC63562.1; -
CC  PIR: C71305; C71305.
CC  TIGR: TP0586; -.
CC  HAMAP: MF 00049; -.
CC  InterPro: IPR002302; Leu-tRNA-synthet.
CC  InterPro: IPR002300; tRNA-synt_1a.
CC  InterPro: IPR001412; tRNA-synt_1.
CC  Pfam: PF00133; tRNA-synt_1; 1.
CC  PRINTS: PR00985; TRNASYNTHLEU.
CC  TIGRFAMS: TIGR00396; leuS bact; 1.
CC  PROSITE: PS00178; AA TRNA-LIGASE I; 1.
CC  KW Aminoacyl-tRNA synthetase; Protein biosynthesis; Ligase; ATP-binding;
CC  Complete proteome.
CC  SITE 43 54 "HIGH" REGION.
CC  SITE 634 638 "RMSKS" REGION.
CC  FT BINDING 637 637 ATP (BY SIMILARITY).
CC  FT SEQUENCE 878 AA; 98991 MW; DCD74B2DC3652B74 CRC64;

Query Match 1.2%; Score 8; DB 1; Length 878;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 117 GAFNGLAS 124
DB 404 GAFNGLAS 411
|||||

RESULT 10
RPML ARATH STANDARD; PRT; 926 AA.
AC Q39214;
DT 15-SEP-2003 (Rel. 42, Created)
DT 15-SEP-2003 (Rel. 42, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Disease resistance protein RPM1 (Resistance to Pseudomonas syringae
DE protein 3).
GN RPM1 OR RPS3 OR AT3G07040 OR F17A9.20.
OS Arabidopsis thaliana (Mouse-ear cress).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
OC eurosid II; Brassicales; Brassicaceae; Arabidopsi.
OX NCBI_TaxID:3702;
RN [1]_
RP SEQUENCE FROM N.A., AND MUTANTS RPS3-2 AND RPS3-4.
RC STRAIN=cv. Columbia;
RX MEDLINE=S5365795; PubMed=7638602;
RA Grant M.R., Godiard L., Straube E., Ashfield T., Lewald J.,
RA Stattler A., Innes R.W., Dangl J.L.;
RT "Structure of the Arabidopsis RPM1 gene enabling dual specificity
RT disease resistance.";
RL Science 269:843-846(1995).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=cv. Columbia;
RX MEDLINE=21016720; PubMed=11130713;
RA Salanoubat M., Lemcke K., Rieger M., Ansorge W., Unseld M.,
RA Fartmann B., Vallery M., Bloeker H., Perez-Alonso M., Obermaier B.,
RA Delseny M., Boutry M., Grivell L.A., Mache R., Puigdomenech P.,
RA De Simone V., Choisme N., Artiguenave P., Robert C., Brottier P.,
RA Wincker P., Cattolico L., Weissenbach J., Saurin W., Quetier F.,
RA Schaefer M., Mueller-Auer S., Gabel C., Fuchs M., Benes V.,
RA Wurmbach E., Drzonek H., Erfle H., Jordan N., Bangert S.,
RA Wiedemann R., Kranz H., Voss H., Holland R., Brandt P., Nyakatura G.,
RA Vezzi A., D'Angelo M., Pallavicini A., Toppo S., Simonati B.,
RA Conrad A., Hornischer K., Kauer G., Loehner T.-H., Nordsiek G.,
RA Reichelt J., Scharfe M., Schoen O., Barges M., Terol J., Climent J.,
RA Navarro P., Collado C., Perez-Perez A., Ottenwaelder B., Duchemin D.,
RA Cooke R., Landie M., Berger-Liauro C., Purnelle B., Masny D.,
RA de Haan M., Maarse A.C., Alcaraz J.-P., Cottet A., Casacuberta E.,
RA Monfort A., Argiriou A., Flores M., Liguori R., Vitale D.,
RA Manhaupt G., Haase D., Schoof H., Rudd S., Zaccaria P.,
RA Mayer K.F.X., Kaul S., Town C.D., Koo H.L., Tallon L.J., Jenkins J.,

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EMBL; X87851; CAA61131.1; -  
EMBL; AC016827; AAF27008.1; -  
PIR; A57072; A57072.  
InterPro; IPR000767; Disease\_resist.  
InterPro; IPR001611; LRR  
InterPro; IPR002182; NB-ARC.  
Pfam; PF00560; LRR; 1.  
Pfam; PF00931; NB-ARC; 1.  
PRINTS; PR00364; DISEASESIS.  
Plant defense; Membrane; ATP-binding; Repeat; Leucine-rich repeat.  
DOMAIN 10 45  
LEUCINE-ZIPPER.  
DOMAIN 153 467  
NB-ARC.  
REPEAT 580 603  
LRR 1.  
REPEAT 605 625  
LRR 2.  
REPEAT 626 649  
LRR 3.  
REPEAT 778 804  
LRR 4.  
NP\_BIND 200 207  
ATP (POTENTIAL).  
MUTAGEN 43 43  
S-F: LOSS OF FUNCTION.  
MUTAGEN 105 105  
P-S: LOSS OF FUNCTION.  
MUTAGEN 174 174  
G-R: LOSS OF FUNCTION.  
MUTAGEN 186 186  
L-F: LOSS OF FUNCTION.  
MUTAGEN 203 203  
G-D-S: LOSS OF FUNCTION.  
MUTAGEN 205 205  
G-R-E: LOSS OF FUNCTION.  
MUTAGEN 211 211  
A-V: LOSS OF FUNCTION.  
MUTAGEN 219 219  
V-M: LOSS OF FUNCTION.  
MUTAGEN 247 247  
E-K: LOSS OF FUNCTION.  
MUTAGEN 269 269  
V-M: LOSS OF FUNCTION.  
MUTAGEN 272 272  
L-F: LOSS OF FUNCTION.  
MUTAGEN 290 290  
L-F: LOSS OF FUNCTION.  
MUTAGEN 301 301  
T-S-I: LOSS OF FUNCTION.  
MUTAGEN 307 307  
L-F: IN RP33-2; LOSS OF FUNCTION.  
MUTAGEN 313 313  
G-E: LOSS OF FUNCTION.  
MUTAGEN 325 325  
T-I: LOSS OF FUNCTION.  
MUTAGEN 340 340  
G-E: LOSS OF FUNCTION.  
MUTAGEN 341 341  
E-K: LOSS OF FUNCTION.  
MUTAGEN 344 344  
L-F: LOSS OF FUNCTION.  
MUTAGEN 379 379  
A-V: LOSS OF FUNCTION.  
MUTAGEN 384 384  
L-F: LOSS OF FUNCTION.  
MUTAGEN 395 395  
G-R: LOSS OF FUNCTION.  
MUTAGEN 439 439  
S-P: LOSS OF FUNCTION.  
MUTAGEN 442 442  
P-S: LOSS OF FUNCTION.  
MUTAGEN 464 464  
P-S: LOSS OF FUNCTION.  
MUTAGEN 467 467  
G-R: LOSS OF FUNCTION.  
MUTAGEN 471 471  
E-K: LOSS OF FUNCTION.  
MUTAGEN 474 474  
A-T: LOSS OF FUNCTION.  
MUTAGEN 494 494  
P-L: LOSS OF FUNCTION.  
MUTAGEN 497 497  
R-Q: LOSS OF FUNCTION.  
MUTAGEN 498 498  
P-S: LOSS OF FUNCTION.  
MUTAGEN 515 515  
P-S: LOSS OF FUNCTION.  
MUTAGEN 620 620  
P-S: LOSS OF FUNCTION.  
MUTAGEN 738 738  
S-F: LOSS OF FUNCTION.  
MUTAGEN 766 766  
G-E: IN RP33-4; LOSS OF FUNCTION.  
MUTAGEN 778 778  
L-F: LOSS OF FUNCTION.  
MUTAGEN 781 781  
L-F: LOSS OF FUNCTION.  
MUTAGEN 787 787  
R-H: LOSS OF FUNCTION.  
MUTAGEN 812 812  
N-I: LOSS OF FUNCTION.  
MUTAGEN 852 852  
L-F: LOSS OF FUNCTION.  
MUTAGEN 924 924  
L-F: LOSS OF FUNCTION.  
SEQUENCE 926 AA; 106882 MW; E2B2D6613CB0FA0D CRC64;

Query Match 1.2%; Score 8; DB 1; Length 926;  
Best Local Similarity 100.0%; Pred. No. 17;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 196 FNLYLNL 203  
Db 604 FNLYLNL 611

Rooney T., Rizzo M., Walte A., Utterback T., Fujii C.Y., Shea T.P.,  
Creasy T.H., Haas B., Maiti R., Wu D., Peterson J., Van Aken S.,  
Pai G., Miltscher J., Sellers P., Gill J.E., Feldhlyum T.V.,  
Preuss D., Lin X., Nierman W.C., Salzberg S.L., White O., Venter J.C.,  
Fraser C.M., Kaneko T., Nakamura Y., Sato S., Kato T., Asamizu E.,  
Sasamoto S., Kimura T., Idesawa K., Kawashima K., Kishida Y.,  
Kiyokawa C., Kohara M., Matsumoto M., Matsuno A., Muraki A.,  
Nakayama S., Nakazaki N., Shinpo S., Takeuchi C., Wada T.,  
Watanabe A., Yamada M., Yasuda M., Tabata S.,  
"Sequence and analysis of chromosome 3 of the plant Arabidopsis  
thaliana";  
Nature 408:820-822(2000).  
[3]  
SUBCELLULAR LOCATION, AND DEGRADATION.  
MEDLINE=99080103; PubMed=9861059;  
A Boyes D.C., Nam J., Dangl J.L.,  
"The Arabidopsis thaliana RPM1 disease resistance gene product is a  
peripheral plasma membrane protein that is degraded coincident with  
the hypersensitive response";  
Proc. Natl. Acad. Sci. U.S.A. 95:15849-15854(1998).  
[4]  
MUTAGENESIS OF SER-43; PRO-105; GLY-174; LEU-186; GLY-203; GLY-205;  
ALA-211; VAL-219; GLU-247; VAL-269; LEU-272; THR-290; LEU-301;  
GLY-307; THR-313; GLY-325; GLU-340; LEU-344; ALA-379; GLY-384;  
GLU-395; SER-439; PRO-442; PRO-464; GLY-467; GLU-471; ALA-474;  
PRO-494; ARG-497; PRO-498; SER-515; PRO-620; SER-738; GLY-766;  
LEU-778; LEU-781; ARG-787; ASN-812; LEU-852 AND LEU-924.  
MEDLINE=21892071; PubMed=11894685;  
Tornero P., Chao R.A., Luthin W.N., Goff S.A., Dangl J.L.,  
"Large-scale structure-function analysis of the Arabidopsis RPM1  
disease resistance protein";  
Plant Cell 14:435-450(2002).  
[5]  
INTERACTION WITH TIP49A.  
MEDLINE=22057630; PubMed=12062092;  
Holt B.F. III, Boyes D.C., Ellerstrom M., Siefers N., Wiig A.,  
Kaufman S., Grant M.R., Dangl J.L.,  
"An evolutionarily conserved mediator of plant disease resistance gene  
function is required for normal Arabidopsis development";  
Dev. Cell 2:807-817(2002).  
[6]  
INTERACTION WITH RIN4.  
MEDLINE=21952473; PubMed=11955429;  
Mackey D., Holt B.F. III, Wiig A., Dangl J.L.,  
"RIN4 interacts with Pseudomonas syringae type III effector molecules  
and is required for RPM1-mediated resistance in Arabidopsis";  
Cell 108:743-754(2002).  
-!- FUNCTION: Disease resistance (R) protein that specifically  
recognizes the AvrRpm1 type III effector avirulence protein from  
Pseudomonas syringae. Resistance proteins guard the plant against  
pathogens that contain an appropriate avirulence protein via an  
indirect interaction with this avirulence protein. That triggers a  
defense system including the hypersensitive response, which  
restricts the pathogen growth. Acts via its interaction with RIN4,  
and probably triggers the plant resistance when RIN4 is  
phosphorylated by AvrRpm1. It is then degraded at the onset of the  
hypersensitive response.  
-!- SUBUNIT: Interacts directly with RIN4 via its N-terminal region.  
Interacts with TIP49A, a protein known to interact with the TATA  
binding protein complex (TBP).  
-!- SUBCELLULAR LOCATION: Cytoplasmic; membrane-associated.  
-!- DOMAIN: The LRR repeats probably act as specificity determinant of  
pathogen recognition.  
-!- SIMILARITY: Belongs to the disease resistance NB-LRR family.  
-!- SIMILARITY: Contains 4 leucine-rich (LRR) repeats.  
-!- SIMILARITY: Contains 1 NB-ARC domain.  
-!- DATABASE: NAME=NIB-LRRS;  
NOTE=Functional and comparative genomics of disease resistance gene  
homologs;  
WWW="http://niblr.ucdavis.edu".

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RESULT 11
DATE MOUSE
ID MATE_MOUSE STANDARD; PRT; 1111 AA.
AC Q9R1M5; Q9JLR2;
DT 28-FEB-2003 (Rel. 41, Last sequence update)
JT 28-FEB-2003 (Rel. 41, Last annotation update)
JE Maternal antigen that embryos require (Water protein) (Ooplasm-
specific protein 1) (OPL).
DE WATER.
DS Mus musculus (Mouse).
XS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
XC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
XX NCBI_TaxID=10090;
XN [1]
XP SEQUENCE FROM N.A. TISSUE=Ovary;
RC STRAIN=NIH Swiss; PubMed=10433232;
RX MEDLINE=99360614; PubMed=10433232;
RA Tong Z.-B., Nelson L.M.;
RT "A mouse gene encoding an oocyte antigen associated with autoimmune
premature ovarian failure.";
RL Endocrinology 140:3720-3726(1999).
RN [2]
RP SEQUENCE FROM N.A., AND VARIANTS ASP-7; LEU-42; LYS-87; PRO-256;
RC GLN-977 AND 1003-ASN-ASN-1004.
RX STRAIN=129/SV;
RA MEDLINE=2022768; PubMed=10754103;
RT Tong Z.-B., Nelson L.M., Dean J.;
RL "Water encodes a maternal protein in mice with a leucine-rich repeat
domain homologous to porcine ribonuclease inhibitor.";
RN Mamm. Genome 11:281-287(2000).
RN [3]
RP FUNCTION.
RX MEDLINE=20517328; PubMed=11062459;
RA Tong Z.-B., Gold L., Pfeifer K.E., Dorward H., Lee E., Bondy C.A.,
RT Dean J., Nelson L.M.;
RL "Water, a maternal effect gene required for early embryonic
development in mice";
RN Nat. Genet. 26:267-268(2000).
CC -!- FUNCTION: Necessary for embryonic development beyond the 2-cell
stage.
CC -!- SUBCELLULAR LOCATION: Cytoplasmic.
CC -!- TISSUE SPECIFICITY: Oocyte-specific.
CC -!- SIMILARITY: Contains 1 NACHT domain.
CC -!- SIMILARITY: Contains 13 leucine-rich (LRR) repeats.
CC -----
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CC -----
CC EMBL; AF074018; RAD51762.1; -
CC EMBL; AF143573; AAF64393.1; -
CC EMBL; AF143559; AAF64393.1; JOINED.
CC EMBL; AF143560; AAF64393.1; JOINED.
CC EMBL; AF143561; AAF64393.1; JOINED.
CC EMBL; AF143562; AAF64393.1; JOINED.
CC EMBL; AF143563; AAF64393.1; JOINED.
CC EMBL; AF143564; AAF64393.1; JOINED.
CC EMBL; AF143565; AAF64393.1; JOINED.
CC EMBL; AF143566; AAF64393.1; JOINED.
CC EMBL; AF143567; AAF64393.1; JOINED.
CC EMBL; AF143568; AAF64393.1; JOINED.
CC EMBL; AF143569; AAF64393.1; JOINED.
CC EMBL; AF143570; AAF64393.1; JOINED.
CC EMBL; AF143571; AAF64393.1; JOINED.
CC EMBL; AF143572; AAF64393.1; JOINED.
CC PIR; A59000; A59000.
DR HSSP; P10775; 2BNH.
DR MGD; MGI:1345193; Water.
DR GO; GO:0005829; Cytoplasm; IDA.
DR GO; GO:0009887; P:organogenesis; IMP.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR007091; LRR_RNinh.
DR InterPro; IPR007111; NACHT_NTPase.
DR Pfam; PF00560; LRR; 3.
DR PROSITE; PS00837; NACHT; 1.
KW ATP-binding; Leucine-rich repeat; Repeat; Polymorphism.
FT DOMAIN 1 128 5 X APPROXIMATE TANDEM REPEATS.
FT REPEAT 1 23 1 (INCOMPLETE).
FT REPEAT 24 49 2.
FT REPEAT 50 75 3.
FT REPEAT 76 102 4.
FT REPEAT 103 128 5.
FT DOMAIN 191 513 NACHT.
FT REPEAT 640 664 LRR 1.
FT REPEAT 691 714 LRR 2.
FT REPEAT 737 762 LRR 3.
FT REPEAT 776 799 LRR 4.
FT REPEAT 804 832 LRR 5.
FT REPEAT 834 856 LRR 6.
FT REPEAT 861 884 LRR 7.
FT REPEAT 890 913 LRR 8.
FT REPEAT 918 941 LRR 9.
FT REPEAT 950 974 LRR 10.
FT REPEAT 975 1003 LRR 11.
FT REPEAT 1005 1027 LRR 12.
FT REPEAT 1032 1059 LRR 13.
FT NP_BIND 197 204 ATP (POTENTIAL).
FT VARIANT 42 42 E -> D (IN STRAIN 129/SV).
FT VARIANT 87 87 G -> L (IN STRAIN 129/SV).
FT VARIANT 256 256 R -> K (IN STRAIN 129/SV).
FT VARIANT 277 277 L -> P (IN STRAIN 129/SV).
FT VARIANT 377 377 H -> Q (IN STRAIN 129/SV).
FT VARIANT 1003 1004 SS -> NN (IN STRAIN 129/SV).
SQ SEQUENCE 1111 AA; 125502 MW; 4016ASD67A1C01F4 CRC64;
Query Match 1.2%; Score 8; DB 1; Length 1111;
Best Local Similarity 100.0%; Pred.No. 20;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 197 NKYLNLG 204
DB 749 NKYLNLG 756
RESULT 12
YCF2_PINTH STANDARD; PRT; 2054 AA.
AC P41653;
DT 01-NOV-1995 (Rel. 32, Created)
DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 16-OCT-2001 (Rel. 40, Last annotation update)
DE Hypothetical 244.6 kDa protein ycf2 (ORF 2054).
GN YCF2.
OS Pinus thunbergii (Green pine) (Japanese black pine).
OG Chloroplast.
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Coniferopsida; Coniferales; Pinaceae; Pinus.
OX NCBI_TaxID=3350;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=95024047; PubMed=7937893;
RA Wakasugi T., Tsudzuki J., Ito S., Nakashima K., Tsuda K. T.,
RA Sugiura M.;
RT "Loss of all ndh genes as determined by sequencing the entire
chloroplast genome of the black pine Pinus thunbergii.";
RL Proc. Natl. Acad. Sci. U.S.A. 91:9794-9798(1994).
CC -!- FUNCTION: NOT YET KNOWN
CC -!- SIMILARITY: BELONGS TO THE YCF2 FAMILY.
CC -----
```

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CC -----  
 CC EMBL: D17510; BAA04460.1; --  
 CC PIR: T07584; T07584.  
 CC InterPro: IPR003593; AAA\_ATPase.  
 CC InterPro: IPR003595; AAA\_ATPase\_central.  
 CC Pfam: PF00004; AAA; 1.  
 CC SMART: SM00382; AAA; 1.  
 CC Chloroplast; Hypothetical protein.  
 CC Q SEQUENCE 2054 AA; 244604 MW; 655E92D078E33A9A CRC64;

Query Match 1.2%; Score 8; DB 1; Length 2054;  
 Best Local Similarity 100.0%; Pred. No. 34;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 275 HNNLSLP 282  
 b 819 HNNLSLP 826

RESULT 13  
 OLIG LANVT STANDARD; PRF; 3414 AA.

C P29837; 01-APR-1993 (Rel. 25, Created)  
 T 01-FEB-1994 (Rel. 28, Last sequence update)  
 T 28-FEB-2003 (Rel. 41, Last annotation update)  
 E Genome polyprotein [Contains: Capsid protein C (Core protein);  
 E Envelope protein p24; Matrix protein (Envelope M); Major  
 E Envelope protein E; Nonstructural protein NS1; Nonstructural protein  
 E NS2A; Nonstructural protein NS2B; Helicase/protease (EC 3.4.21.98)  
 E (NS3); Nonstructural protein NS4A; Nonstructural protein NS4B; RNA-  
 E directed RNA polymerase (EC 2.7.7.48) (NS5)].  
 S Langat virus (strain TP21).  
 C Viruses; ssRNA positive-strand viruses, no DNA stage; Flaviviridae;  
 C Flavivirus.

C NCBI\_TaxID=31636;  
 X [1]  
 N SEQUENCE OF 1-776 FROM N.A.  
 P MEDLINE=92074260; PubMed=1720591;  
 X Mandl C.W., Iacono-Connors L., Wallner G., Holzmarm H., Kunz C.,  
 A Heinz F.X.;  
 T "Sequence of the genes encoding the structural proteins of the low-  
 T virulence tick-borne flaviviruses Langat TP21 and Yelantsev";  
 L Virology 185:891-895(1991).  
 N [2]

N SEQUENCE OF 777-3414 FROM N.A.  
 P MEDLINE=92263794; PubMed=1316684;  
 X Iacono-Connors L.C., Schmaljohn C.S.;  
 A "Cloning and sequence analysis of the genes encoding the  
 T nonstructural proteins of Langat virus and comparative analysis with  
 T other flaviviruses";  
 L Virology 188:875-880(1992).

L -1- CATALYTIC ACTIVITY: Hydrolysis of four peptide bonds in the viral  
 C precursor polyprotein, commonly with Asp or Glu in the p6  
 C position, Cys or Thr in p1 and Ser or Ala in p1'.  
 C -1- CATALYTIC ACTIVITY: N nucleoside triphosphate = N diphosphate +  
 C {RNA}(N).  
 C -1- SUBUNIT: THE VIRION OF THIS VIRUS IS A NUCLEOCAPSID COVERED BY A  
 C LIPID-PROTEIN ENVELOPE. THE ENVELOPE CONSISTS OF TWO PROTEINS:  
 C PROTEIN M AND GLYCOPROTEIN E. THE NUCLEOCAPSID IS A COMPLEX OF  
 C PROTEIN C AND RNA.

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 or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).

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 EMBL: M73835; AAA02740.1; ALT\_TERM.  
 EMBL: S35365; AAB22165.1; --  
 PIR: A42545; A42545.  
 HSSP: P14336; ISVB.

DR MEROPS; S07\_001; --  
 DR InterPro: IPR001410; DEAD.  
 DR InterPro: IPR001122; Flavi\_capsidC.  
 DR InterPro: IPR000336; Flavi\_glycoprote.  
 DR InterPro: IPR001850; Flavi\_helicase.  
 DR InterPro: IPR000069; Flavi\_M.  
 DR InterPro: IPR001157; Flavi\_NS1.  
 DR InterPro: IPR000752; Flavi\_NS2A.  
 DR InterPro: IPR000487; Flavi\_NS2B.  
 DR InterPro: IPR000404; Flavi\_NS4A.  
 DR InterPro: IPR001528; Flavi\_NS4B.  
 DR InterPro: IPR000208; Flavi\_NS5.  
 DR InterPro: IPR002535; Flavi\_propep.  
 DR InterPro: IPR002877; FtsJ.  
 DR InterPro: IPR001650; Helicase\_C.  
 DR InterPro: IPR007095; RNA\_pol\_DS\_PS.  
 DR InterPro: IPR007094; RNA\_pol\_PSVir.  
 DR Pfam: PF01003; Flavi\_capsid; 1.  
 DR Pfam: PF02832; Flavi\_glycoprot; 1.  
 DR Pfam: PF00869; Flavi\_glycoprot; 1.  
 DR Pfam: PF00949; Flavi\_helicase; 1.  
 DR Pfam: PF01004; Flavi\_M; 1.  
 DR Pfam: PF00948; Flavi\_NS1; 1.  
 DR Pfam: PF01005; Flavi\_NS2A; 1.  
 DR Pfam: PF01002; Flavi\_NS2B; 1.  
 DR Pfam: PF01350; Flavi\_NS4A; 1.  
 DR Pfam: PF01349; Flavi\_NS4B; 1.  
 DR Pfam: PF00972; Flavi\_NS5; 1.  
 DR Pfam: PF01570; Flavi\_propep; 1.  
 DR Pfam: PF01728; FtsJ; 1.  
 DR Pfam: PF00271; Helicase\_C; 1.  
 DR ProDom: PD001556; Flavi\_glycoprote; 1.  
 DR ProDom: PD001496; Flavi\_NS1; 1.  
 DR SMART: SMO0487; DEXDC; 1.  
 DR SMART: SMO0490; HELIC; 1.

KW Polyprotein; Glycoprotein; Transferase; RNA-directed RNA polymerase;  
 KW Core protein; Coat protein; Envelope protein; Hydrolase; Helicase;  
 KW ATP-binding; Transmembrane; Nonstructural protein.  
 KW INIT\_MET 1 1  
 REMOVED FROM CAPSID PROTEIN C BY THE  
 CELLULAR AMINOPEPTIDASE.

CHAIN 1 112  
 CHAIN 113 205  
 CHAIN 206 280  
 CHAIN 281 776  
 CHAIN 777 1128  
 CHAIN 1129 1358  
 CHAIN 1359 1489  
 CHAIN 1490 2110  
 CHAIN 2111 2259  
 CHAIN 2260 2511  
 CHAIN 2512 3414

NP BIND 1688 1695  
 SITE 1779 1782  
 TRANSMEM 103 119  
 TRANSMEM 262 278  
 TRANSMEM 728 774  
 TRANSMEM 758 774  
 DISULFID 283 310  
 DISULFID 340 396  
 DISULFID 354 385  
 DISULFID 372 401  
 DISULFID 465 570  
 DISULFID 587 618  
 CARBOHYD 144 144

ATP (POTENTIAL).  
 DEAH BOX.  
 POTENTIAL.  
 POTENTIAL.  
 POTENTIAL.  
 BY SIMILARITY.  
 BY SIMILARITY.  
 BY SIMILARITY.  
 BY SIMILARITY.  
 BY SIMILARITY.  
 BY SIMILARITY.  
 N-LINKED (GLCNAC...) (POTENTIAL).

CAPSID PROTEIN C (POTENTIAL).  
 ENVELOPE PROTEIN PM (POTENTIAL).  
 ENVELOPE PROTEIN M (POTENTIAL).  
 MAJOR ENVELOPE PROTEIN E (POTENTIAL).  
 NONSTRUCTURAL PROTEIN NS1 (POTENTIAL).  
 NONSTRUCTURAL PROTEIN NS2 (POTENTIAL).  
 NONSTRUCTURAL PROTEIN NS2B (POTENTIAL).  
 PROTEASE/HELICASE (POTENTIAL).  
 NONSTRUCTURAL PROTEIN NS4A (POTENTIAL).  
 NONSTRUCTURAL PROTEIN NS4B (POTENTIAL).  
 RNA-DIRECTED RNA POLYMERASE (NS5)  
 (POTENTIAL).

```

FT CARBOHYD 434 434 N-LINKED (GLCNAC... ) (POTENTIAL).
SQ SEQUENCE 3414 AA; 378017 MW; 59CB7B95DD70D82E CRC64;

Query Match 1.2%; Score 8; DB 1; Length 3414;
Best Local Similarity 100.0%; Pred. No. 52;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2Y 267 SIVELNLA 274
DB 847 SIVELNLA 854
|||||

RESULT 14
ANP8_MYOCAE
ID ANP8_MYOCAE STANDARD; PRT; 40 AA.
AC P20617;
DT 01-FEB-1991 (Rel. 17, Created)
DT 01-FEB-1991 (Rel. 17, Last sequence update)
DT 01-MAY-1991 (Rel. 18, Last annotation update)
DE Antifreeze peptide GS-8.
DS Myoxocephalus aeneus (Grubby sculpin).
DC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
DC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
DC Acanthomorpha; Acanthopterygii; Percomorpha; Scorpaeniformes;
DC Cottoidei; Cottidae; Myoxocephalus.
DX NCBI_TaxID=8096;
RX [1]
SQ SEQUENCE.
RA Chakrabarty A., Hew C.-L., Shears M., Fletcher G.;
RT "Primary structures of the alanine-rich antifreeze polypeptides from
RT grubby sculpin, Myoxocephalus aeneus.";
RL Can. J. Zool. 66:403-408(1988).
XC -!- FUNCTION: ANTIFREEZE PROTEINS LOWER THE BLOOD FREEZING POINT.
XC -!- SIMILARITY: BELONGS TO THE TYPE-1 APP FAMILY. TYPE 1 APP ARE
XC ALANINE-RICH AMPHIPHILIC AND ALPHA-HELICAL.
XR PIR, S07046; FDF18G.
XR InterPro; IPR000104; Antifreeze 1.
XR PRINTS; PRO0308; ANTIFREEZE1.
GW Antifreeze protein; Repeat.
PT MOD RES 1
IQ SEQUENCE 40 AA; 3579 MW; 32F50E243C2AD11 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 40;
Best Local Similarity 100.0%; Pred. No. 11;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2Y 33 AAIASAAA 39
DB 33 AAIASAAA 39
|||||

RESULT 15
ANP8_MYOSC
ID ANP8_MYOSC STANDARD; PRT; 45 AA.
AC P04368;
DT 20-MAR-1987 (Rel. 04, Created)
DT 20-MAR-1987 (Rel. 04, Last sequence update)
DT 01-AUG-1990 (Rel. 15, Last annotation update)
DE Antifreeze peptide SS-8.
DS Myoxocephalus scorpius (Shorthorn sculpin) (Daddy sculpin).
DC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
DC Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
DC Acanthomorpha; Acanthopterygii; Percomorpha; Scorpaeniformes;
DC Cottoidei; Cottidae; Myoxocephalus.
DX NCBI_TaxID=8097;
RX [1]
SQ SEQUENCE.
RA Hew C.-L., Joshi S., Wang N.-C., Kao M.H., Ananthanarayanan V.S.;
RT "Structures of shorthorn sculpin antifreeze polypeptides.";
RL Eur. J. Biochem. 151:167-172(1985).
XC -!- FUNCTION: ANTIFREEZE PROTEINS LOWER THE BLOOD FREEZING POINT.
XC -!- SIMILARITY: BELONGS TO THE TYPE-1 APP FAMILY. TYPE 1 APP ARE

```

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CC ALANINE-RICH, AMPHIPHILIC AND ALPHA-HELICAL.
DR PIR, A05163; A05163.
KW Antifreeze protein; Repeat.
FT MOD RES 1
FT REPEAT 9 21 BLOCKED.
FT REPEAT 22 33
FT REPEAT 34 45
SQ SEQUENCE 45 AA; 4006 MW; 260C0BCC663B6878 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 45;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 33 AAIASAAA 39
DB 36 AAIASAAA 42
|||||

RESULT 16
Y638_MYCLE
ID Y638_MYCLE STANDARD; PRT; 100 AA.
AC Q49769;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Hypothetical protein ML0638.
DS ML0638 OR B1937 F3_110.
OS Mycobacterium leprae.
OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
OC Corynebacterineae; Mycobacteriaceae; Mycobacterium.
OX NCBI_TaxID=1769;
RX [1]
SQ SEQUENCE FROM N.A.
RA Smith D.R., Robison K.;
RL Submitted (MAR-1994) to the EMBL/GenBank/DBJ databases.
RN [12]
RP SEQUENCE FROM N.A.
RC STRAIN=TN;
RX MEDLINE=21128732; PubMed=11234002;
RA Cole S.T., Eigmeier K., Parkhill J., James K.D., Thomson N.R.,
RA Wheeler P.R., Honore N., Garnier T., Churcher C., Harris D.,
RA Mungall K., Basham D., Brown D., Chillingworth T., Connor R.,
RA Davies R.M., Devlin K., Duthoy S., Feltwell T., Fraser A., Hamlin N.,
RA Holroyd S., Hornsby T., Jagels K., Lacroix C., Maclean J., Moule S.,
RA Murphy L., Oliver K., Quail M.A., Rajandream M.A., Rutherford K.M.,
RA Rutter S., Seeger K., Simon S., Simmonds M., Skelton J., Squares R.,
RA Squares S., Stevens K., Taylor K., Whitehead S., Woodward J.R.,
RA Barrell B.G.;
RT "Massive gene decay in the leprosy bacillus.";
RL Nature 409:1007-1011(2001).
CC -!- SUBCELLULAR LOCATION: Secreted (Potential).
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CC
CC EMBL; U00016; AAA1715.1; -.
DR EMBL; AL583919; CAC30147.1; -.
DR PIR; S72607; S72607.
DR Leproma; ML0638; -.
KW Hypothetical protein; Complete proteome.
SQ SEQUENCE 100 AA; 11264 MW; 41BB117C37A3538A CRC64;

Query Match 1.1%; Score 7; DB 1; Length 100;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 577 AATSAAAA 583
|||||

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3 24 AATSAAA 30

35ULT 17  
RS10 LISMO STANDARD; PRT; 102 AA.  
Q927K6;  
28-FEB-2003 (Rel. 41, Created)  
28-FEB-2003 (Rel. 41, Last sequence update)  
28-FEB-2003 (Rel. 41, Last annotation update)  
30S ribosomal protein S10.  
RPSJ OR LMO2633 OR LIN2782.  
Listeria monocytogenes, and  
Listeria innocua.  
Bacteria; Firmicutes; Bacillales; Listeriaceae; Listeria.  
NCBI\_TaxID=1639, 1542;  
[1]  
SEQUENCE FROM N.A.  
SPECIES=L.monocytogenes, and L.innocua;  
STRAIN=ECD-e / Serovar 1/2a, and CLIP 11262 / Serovar 6a;  
MEDLINE=21537279; PubMed=11679669;  
Glaser P., Frangeul L., Buchrieser C., Rusniok C., Amend A.,  
Baquero F., Berche P., Bloeker H., Brandt P., Chakraborty T.,  
Charbit A., Chetoui F., Couve E., de Daruvar A., Dehoux P.,  
Domann K.-D., Dominguez-Bernal G., Duchaud E., Durant L., Dussurget O.,  
Entian L., Fshih H., Garcia-del Portillo F., Garrido P.,  
Gautier L., Gobbel W., Gomez-Lopez N., Hain T., Hauf J., Jackson D.,  
Jones L.-M., Kaerst U., Kretz J., Kuhn M., Kunst F., Kurapkut G.,  
Madueno E., Maitournam A., Mata Vicente J., Ng E., Nedjari H.,  
Nordieck G., Novella S., de Pablo B., Perez-Diaz J.-C., Purcell R.,  
Remmel B., Rose M., Schlueter T., Simoes N., Tierrez A.,  
Vazquez-Roland J.-A., Voss H., Weiland J., Cossart P.;  
Comparative genomics of Listeria species.";  
Science 294:849-852(2001).  
-I- FUNCTION: Involved in the binding of tRNA to the ribosomes (By similarity).  
-I- SIMILARITY: BELONGS TO THE S10P FAMILY OF RIBOSOMAL PROTEINS.  
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EMBL; AL596173; CAC98008.1; --  
ENBL; AU591983; CAD00711.1; --  
PIR; AH1779; AH1779.  
PIR; AH1403; AH1403.  
Listlist; LMO2633; --  
Listlist; LIN2782; --  
HAMAP; MF\_00508; --  
InterPro; IPR001848; Ribosomal\_S10.  
InterPro; IPR005731; S10\_bact.  
Pfam; PF00338; Ribosomal\_S10; 1.  
PRINTS; PR00971; RIBOSOMALS10.  
ProDom; PD001272; Ribosomal\_S10; 1.  
TIGRFAMs; TIGR01049; rpsJ\_bact; 1.  
PROSITE; PS00361; RIBOSOMAL\_S10; 1.  
Ribosomal protein. Complete proteome.  
W Q SEQUENCE 102 AA; 11682 MW; 7E4B18EA33CCDB CRC64;  
  
Query Match 1.1%; Score 7; DB 1; Length 102;  
Best Local Similarity 100.0%; Pred. No. 25;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Y 172 SLMRDL 178  
|||||  
b 86 SLMRDL 92  
  
RESULT 19  
RS10 STRCO STANDARD; PRT; 102 AA.  
AC Q9LOEI;  
28-FEB-2003 (Rel. 41, Created)  
28-FEB-2003 (Rel. 41, Last sequence update)  
DT 15-SEP-2003 (Rel. 42, Last annotation update)  
DE 30S ribosomal protein S10.  
GN RPSJ OR SCO4701 OR SCD31.26 OR SAV4925.  
OS streptomyces coelicolor, and  
OS Streptomyces avermitilis.  
OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;  
OC Streptomycineae; Streptomycetaceae; Streptomyces.  
OX NCBI\_TaxID=1902, 33903;  
[1]  
RN SEQUENCE FROM N.A.  
RP SPECIES=S.coelicolor; STRAIN=A3(2) / M145;  
RC MEDLINE=21996410; PubMed=12000953;  
RX

BA Bentley S.D., Chater K.F., Cerdano-Tarraga A.-M., Challis G.L.,  
 BA Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H.,  
 BA Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,  
 BA Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,  
 BA Huang C.-H., Kieser T., Larke L., Murphy L., Oliver K., O'Neill S.,  
 BA Rabinowitz E., Rajandream M.A., Rutherford K., Rutter S.,  
 BA Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K.,  
 BA Warren T., Wietzorrek A., Woodward J., Barrell B.G., Parkhill J.,  
 BA Hopwood D.A.,  
 BA "Complete genome sequence of the model actinomycete Streptomyces  
 BA coelicolor A3(2).",  
 BA Nature 417:141-147(2002).  
 [2]  
 BA SEQUENCE FROM N.A.  
 BA SPECIES=S. avermitilis;  
 BA STRAIN=MA-4680 / ATCC 31267 / NCIMB 12804 / NRRL 8165;  
 BA MEDLINE=21477403; PubMed=11572948;  
 BA Omura S., Ikeda H., Ishikawa J., Hanamoto A., Takahashi C.,  
 BA Shinose M., Takahashi Y., Horikawa H., Nakazawa H., Osonoe T.,  
 BA Kikuchi H., Shiba T., Sakaki Y., Hattori M.,  
 BA "Genome sequence of an industrial microorganism Streptomyces  
 BA avermitilis: deducing the ability of producing secondary  
 BA metabolites.",  
 BA Proc. Natl. Acad. Sci. U.S.A. 98:12215-12220(2001).  
 [3]  
 BA SEQUENCE FROM N.A.  
 BA SPECIES=S. avermitilis;  
 BA STRAIN=MA-4680 / ATCC 31267 / NCIMB 12804 / NRRL 8165;  
 BA MEDLINE=22608306; PubMed=12692562;  
 BA Ikeda H., Ishikawa J., Hanamoto A., Shinose M., Kikuchi H., Shiba T.,  
 BA Sakaki Y., Hattori M., Omura S.,  
 BA "Complete genome sequence and comparative analysis of the industrial  
 BA microorganism Streptomyces avermitilis.",  
 BA Nat. Biotechnol. 21:528-531(2003).  
 BA -!- FUNCTION: Involved in the binding of tRNA to the ribosomes (By  
 BA similarity).  
 BA -!- SIMILARITY: BELONGS TO THE S10P FAMILY OF RIBOSOMAL PROTEINS.  
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 BA or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
 BA -----  
 BA EMBL; AL939121; CAB82069.1; -;  
 BA EMBL; AP005040; BAC72637.1; -;  
 BA HAVAP; MF\_00508; -; 1.  
 BA InterPro; IPR001848; Ribosomal\_S10.  
 BA InterPro; IPR005731; S10\_bact.  
 BA Pfam; PF00138; Ribosomal\_S10; 1.  
 BA PRINTS; PQ00971; RIBOSOMALS10.  
 BA PRODOM; PD001272; Ribosomal\_S10; 1.  
 BA TIGRFAMs; TIGR01049; rpsJ\_bact; 1.  
 BA PROSITE; PS00361; RIBOSOMAL\_S10; 1.  
 BA Ribosomal protein; Complete proteome.  
 BA SEQUENCE 102 AA; 11521 MW; 87AE8768EB157E09 CRC64;  
 SQ  
 Query Match 1.1%; Score 7; DB 1; Length 102;  
 Best Local Similarity 100.0%; Pred. No. 25;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 172 SLMRDL 178  
 DB 86 SLMRDL 92  
 RESULT 20  
 ID RLAI DICDI STANDARD; PRT; 113 AA.  
 AC P22684;  
 DT 01-AUG-1991 (Rel. 19, Created)

DT 01-AUG-1991 (Rel. 19, Last sequence update)  
 DT 15-DEC-1998 (Rel. 37, Last annotation update)  
 DE 60S acidic ribosomal protein P1.  
 OS Dictyostelium discoideum (Slime mold).  
 CC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.  
 CX NCBI\_TaxID=44689;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=AX3;  
 RX MEDLINE=91232920; PubMed=2030950;  
 RA Prieto J., Candel E., Coloma A.,  
 RA "Nucleotide sequence of a cDNA encoding ribosomal acidic  
 RA phosphoprotein P1 from Dictyostelium discoideum: identification of a  
 RA novel carboxy-terminal sequence in 'A' proteins.",  
 RL Nucleic Acids Res. 19:1340-1340(1991).  
 CC -!- FUNCTION: PLAYS AN IMPORTANT ROLE IN THE ELONGATION STEP OF  
 CC PROTEIN SYNTHESIS.  
 CC -!- SUBUNIT: P1 AND P2 EXIST AS DIMERS AT THE LARGE RIBOSOMAL  
 CC SUBUNIT.  
 CC -!- SIMILARITY: BELONGS TO THE L12P FAMILY OF RIBOSOMAL PROTEINS.  
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 CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
 CC -----  
 CC EMBL; X56193; CAA39656.1; -;  
 CC PIR; S14013; R6DOP1.  
 CC DictyDB; DD01030; -;  
 CC InterPro; IPR001813; 60S\_Ribosomal.  
 CC Pfam; PF00428; 60S\_Ribosomal; 1.  
 CC Ribosomal protein.  
 CC SEQUENCE 113 AA; 11704 MW; D800B32325BAC301 CRC64;  
 SQ  
 Query Match 1.1%; Score 7; DB 1; Length 113;  
 Best Local Similarity 100.0%; Pred. No. 27;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 577 AATSAAA 583  
 DB 78 AATSAAA 84  
 RESULT 21  
 ID CH15 DROVI STANDARD; PRT; 116 AA.  
 AC P13424;  
 DT 01-JAN-1990 (Rel. 13, Created)  
 DT 01-JAN-1990 (Rel. 13, Last sequence update)  
 DT 01-FEB-1996 (Rel. 33, Last annotation update)  
 DE Chorion protein S15.  
 GN CP15 OR S15.  
 OS Drosophila virilis (Fruit fly).  
 CC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
 CC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
 CC Sphingidae; Drosophilidae; Drosophila.  
 CC NCBI\_TaxID=7244;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=86297142; PubMed=3136055;  
 RA Martinez-Cruzado J.C., Swimmer C., Fenerjian M.G., Kafatos F.C.,  
 RA "Evolution of the autosomal chorion locus in Drosophila. I. General  
 RA organization of the locus and sequence comparisons of genes s15 and  
 RA s19 in evolutionary distant species.",  
 RL Genetics 119:663-677(1988).  
 CC -!- SIMILARITY: BELONGS TO THE L12P FAMILY OF RIBOSOMAL PROTEINS.  
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EMBL: X53421; CAA37501.1; --  
PIR: S06614; S06614.  
FlyBase: FBGN0013068; Dvir\Op15.  
InterPro: IPR005649; Chorion\_2.  
Pfam: PF03964; Chorion\_2; 1.  
Chorion.  
SEQUENCE 116 AA; 11990 MW; 8PB7E77C9E75777 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 116;  
Best Local Similarity 100.0%; Pred. No. 28;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

36 AAASAG 42  
|||||  
77 AAASAG 83

# RESULT 22

RS1A ARATH STANDARD; PRT; 129 AA.  
P22758;  
01-NOV-1995 (Rel. 32, Created)  
01-NOV-1995 (Rel. 32, Last sequence update)  
28-FEB-2003 (Rel. 41, Last annotation update)  
40S ribosomal protein S15A.  
RPS15A OR AT1G07770 OR P24B9.12.  
Arabidopsis thaliana (Mouse-ear cress).  
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;  
eurosids II; Brassicales; Brassicaceae; Arabidopsids.  
NCBI\_TaxID=3702;

[1]  
SEQUENCE FROM N.A.  
STRAIN=cv. Columbia;  
MEDLINE=95062748; PubMed=7972526;  
Bonham-Smith P.C., Moloney M.M.;  
"Nucleotide and protein sequences of a cytoplasmic ribosomal protein S15a gene from Arabidopsis thaliana";  
Plant Physiol. 106:401-402(1994).  
[2]  
SEQUENCE FROM N.A.  
STRAIN=cv. Columbia;  
Chen Z., Bonham-Smith P.C.;  
Submitted (JUN-1997) to the EMBL/GenBank/DBSJ databases.  
[3]

SEQUENCE FROM N.A.  
STRAIN=cv. Columbia;  
MEDLINE=21016719; PubMed=11130712;  
Theologis A., Ecker J.R., Palm C.J., Federspiel N.A., Kaul S., White O., Alonso J., Altafi H., Araujo R., Bowman C.L., Brooks S.V., Buehler E., Chan A., Chao Q., Chen H., Cheuk R.F., Chin C.W., Chung M.K., Conn L., Conway A.B., Creasy T.H., Dewar K., Dunn P., Etgu P., Feldblyum T.V., Feng J.-D., Fong B., Fujii C.Y., Gill J.R., Goldsmith A.D., Haas B., Hansen N.F., Hughes B., Huizar L., Hunter J.L., Jenkins J., Johnson-Hopson C., Khan S., Khaykin E., Kim C.J., Koo H.L., Krenetskaia I., Kurtz D.B., Kwan A., Lam B., Langin-Hooper S., Lee A., Lee J.M., Lenz C.A., Li J.H., Li Y.-P., Lin X., Liu S.X., Liu Z.A., Luros J.S., Maiti R., Marziali A., Mitscher J., Miranda M., Nguyen M., Nierman W.C., Osborne B.I., Pai G., Peterson J., Pham P.K., Rizzo M., Rooney T., Rowley D., Sakano H., Salzberg S.L., Schwartz J.R., Shinn P., Southwick A.M., Sun H., Tallon L.J., Tambunga G., Toriumi M.J., Town C.D., Utterback T., Van Aken S., Vaysberg M., Vysotskaia V.S., Walker M., Wu D., Xu G., Fraser C.M., Venter J.C., Davis R.W.;  
"Sequence and analysis of chromosome 1 of the plant Arabidopsis thaliana";  
Nature 408:816-820(2000).  
[4]  
SEQUENCE FROM N.A.

RC STRAIN=cv. Columbia;  
RA Yamada K., Liu S.X., Sakano H., Pham P.K., Banh J., Etgu P., Lee J.M., Toriumi M., Yu G., Brooks S., Chao Q., Chen H., Karlin-Neumann G., Kim C., Lam B., Miranda M., Nguyen M., Palm C.J., Shinn P., Southwick A., Davis R.W., Ecker J.R., Theologis A.;  
"Full length cDNA of gene P24B9.12 (GI:8439890)".  
RT Submitted (DEC-2000) to the EMBL/GenBank/DBSJ databases.  
CC -|- SUBCELLULAR LOCATION: Cytoplasmic.  
CC -|- SIMILARITY: BELONGS TO THE S8P FAMILY OF RIBOSOMAL PROTEINS.  
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EMBL: L27461; AAA61608.1; --  
DR EMBL: AF001412; BAB58750.1; --  
DR EMBL: AC007583; AAF75076.1; --  
DR EMBL: AF332447; AAG48810.1; --  
DR PIR: B86213; B86213.  
DR InterPro: IPR000630; Ribosomal S8.  
DR Pfam: PF0410; Ribosomal S8; 1.  
DR ProDom: PD001098; Ribosomal S8; 1.  
DR PROSITE: PS00053; RIBOSOMAL\_S8; 1.  
KW Ribosomal protein.  
FT INIT MET 0  
SQ SEQUENCE 129 AA; 14673 MW; 85F3D345A25507A1 CRC64;  
Query Match 1.1%; Score 7; DB 1; Length 129;  
Best Local Similarity 100.0%; Pred. No. 30;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 400 RISVLND 406  
Db 2 RISVLND 8  
|||||

RESULT 23  
RS1A BRASSICA STANDARD; PRT; 129 AA.  
AC Q00332; Q04368;  
DT 01-DEC-1992 (Rel. 24, Created)  
DT 01-FEB-1995 (Rel. 31, Last sequence update)  
DT 01-NOV-1997 (Rel. 35, Last annotation update)  
DE 40S ribosomal protein S15A (PPCB8).  
GN RPS15A.  
OS Brassica napus (Rape).  
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;  
OC eurosids II; Brassicales; Brassicaceae; Brassica.  
OX NCBI\_TaxID=3708;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=cv. Westar; TISSUE=Meristem;  
RX MEDLINE=92525812; PubMed=1581568;  
RA Bonham-Smith P.C., Oancia T.L., Moloney M.M.;  
"Cytoplasmic ribosomal protein S15a from Brassica napus: molecular cloning and developmental expression in mitotically active tissues";  
Plant Mol. Biol. 18:909-919(1992).  
RL  
CC -|- SUBCELLULAR LOCATION: Cytoplasmic.  
CC -|- SIMILARITY: BELONGS TO THE S8P FAMILY OF RIBOSOMAL PROTEINS.  
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DT 01-NOV-1995 (Rel. 32, Last sequence update)
DT 15-DEC-1998 (Rel. 37, last annotation update)
DE 40S ribosomal protein S22 (S15A).
GN RPS22 OR RPS15A.
OS Agaricus bisporus (Common mushroom).
OC Eukaryota; Fungi; Basidiomycota; Hymenomycetes; Homobasidiomycetes;
OC Agaricales; Agaricaceae; Agaricus.
NCBI_TaxID=5341;
RX [1]_
RX SEQUENCE FROM N.A.
RP STRAIN=Hoist UL;
RC MEDLINE=95339207; PubMed=7614376;
RX Schaap P.J., de Groot P.W.J., Mueller Y., van Griensven L.J.L.D.,
RA Visser J.;
RT "Molecular cloning and sequence of the cytoplasmic ribosomal protein
RT S15a gene from Agaricus bisporus.";
RL Exp. Mycol. 19:160-162(1995).
CC -!- SIMILARITY: BELONGS TO THE S9P FAMILY OF RIBOSOMAL PROTEINS.
-----
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-----
CC EMBL; X79405; CAA55942.1; -
DR HSPB; F24319; IAN7.
DR InterPro; IPR000630; Ribosomal_S8.
DR Pfam; PF00410; Ribosomal_S8; 1.
DR ProDom; PD001098; Ribosomal_S8; 1.
DR PROSITE; PS00053; RIBOSOMAL_S8; 1.
KW Ribosomal protein.
SQ SEQUENCE 130 AA; 14710 MW; 32561EC17A70B4C7 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 130;
Best Local Similarity 100.0%; Pred.No. 30;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 400 RISVLND 406
DB 3 RISVLND 9
|||||

RESULT 26
ID RUCV_BRUME STANDARD; PRT; 173 AA.
AC Q8YI7;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Crossover junction endodeoxyribonuclease ruvc (EC 3.1.22.4) (Holliday
DE junction nuclease ruvc) (Holliday junction resolvase ruvc).
DE RUCV OR BMEI0332.
OS Brucella melitensis.
OC Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
OC Brucellaceae; Brucella.
OC NCBI_TaxID=29459;
RX [1]_
RX SEQUENCE FROM N.A.
RC STRAIN=16M / ATCC 23456 / Biotype 1;
RX MEDLINE=20020109; PubMed=11756688;
RA DelVecchio V.G., Kaparat V., Redkar R.J., Patra G., Mujar C., Los T.,
RA Ivanova N., Anderson I., Bhattacharya A., Lykidis A., Reznik G.,
RA Jablonski L., Larsen N., D'Souza M., Bernal A., Mazur M., Goltzman E.,
RA Selkov E., Elzer P.H., Hagius S., O'Callaghan D., Letesson J.-J.,
RA Haselkorn R., Kyrildes N., Overbeek R.;
RT "The genome sequence of the facultative intracellular pathogen
RT Brucella melitensis.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:443-448(2002).
CC -!- FUNCTION: Nuclease that resolves Holliday junction intermediates
CC in genetic recombination. Cleaves the cruciform structure in
CC

```



supercoiled DNA by nicking to strands with the same polarity at sites symmetrically opposed at the junction in the homologous arms and leaves a 5' terminal phosphate and a 3' terminal hydroxyl group (By similarity).

-1- CATALYTIC ACTIVITY: Endonucleolytic cleavage at a junction such as a reciprocal single-stranded crossover between two homologous DNA duplexes (Holliday junction).

-1- COFACTOR: Binds 1 magnesium ion per subunit (By similarity).

-1- SIMILARITY: BELONGS TO THE RUVF FAMILY.

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EMBL; AE009475; AAL51513.1; -  
PIR; AF3293; AF3293.  
HAMAP; MF\_00034; 1.  
InterPro; IPR002176; RuvC.  
Pfam; PF02075; RuvC; 1.  
PRINTS; PR00696; RSOLVASRUC.  
ProDom; PD008333; RuvC; 1.  
TIGRFAMs; TIGR00228; RuvC; 1.  
PROSITE; PS01321; RUVF; FALSE NEG.  
Hydrolase; Nuclease; DNA repair; DNA recombination; Magnesium; Complete proteome.  
Metal 11 11 MAGNESIUM (BY SIMILARITY).  
Metal 71 71 MAGNESIUM (BY SIMILARITY).  
Metal 143 143 MAGNESIUM (BY SIMILARITY).  
Metal 146 146 MAGNESIUM (BY SIMILARITY).  
SEQUENCE 173 AA; 18455 MW; C1CF7EAF34FF2P42 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 173;  
Best Local Similarity 100.0%; Pred. No. 39;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 622 SLGNSLH 628  
b 24 SLGNSLH 30  
|||||

RESULT 27  
ISS AZOBR STANDARD; PRT; 192 AA.  
C P18785;  
T 01-NOV-1990 (Rel. 16, Created)  
T 01-AUG-1992 (Rel. 23, Last sequence update)  
T 28-FEB-2003 (Rel. 41, Last annotation update)  
E Imidazole glycerol phosphate synthase subunit hish (EC 2.4.2.-) (IGP synthase glutamine amidotransferase subunit) (IGP synthase subunit hish) (ImGP synthase subunit hish) (IGPS subunit hish).  
N HISH.  
N Asporillum brasilense.  
N Bacteria; Proteobacteria; Alphaproteobacteria; Rhodospirillales;  
N Rhodospirillaceae; Azospirillum.  
N NCBI\_TaxID=192;  
N [1]  
P SEQUENCE FROM N.A.  
C STRAIN=SP6;  
C MEDLINE=89333660; PubMed=2664449;  
X Fani R., Bazzicalupo M., Damiani G., Bianchi A., Schipani C., Sgaranello V., Polinelli M.;  
A "Cloning of histidine genes of Azospirillum brasilense: organization of the ASH gene cluster and nucleotide sequence of the hishB gene."; Mol. Gen. Genet. 236:224-229(1999).  
X -1- FUNCTION: IGPS catalyzes the conversion of PREP and glutamine to IGP, AICAR and Glutamate. The hish subunit provides the glutamine amidotransferase activity that produces the ammonia necessary to hish for the synthesis of IGP and AICAR (By similarity).  
X -1- CATALYTIC ACTIVITY: 5-[(5-phospho-1-deoxyribulose-1-

ylaminomethylidenamino)-1-(5-phosphoribosyl)imidazole-4-carboxamide + L-glutamine = imidazole-glycerol phosphate + 5-aminimidazole-4-carboxamide ribonucleotide + L-glutamate + H(2)O.

-1- PATHWAY: Histidine biosynthesis; fifth step.

-1- SUBUNIT: Heterodimer of hish and hisP (By similarity).

-1- SUBCELLULAR LOCATION: Cytoplasmic (By similarity).

-1- SIMILARITY: Contains 1 type-1 glutamine amidotransferase domain.

-1- CAUTION: Compared to other hish it lacks an internal segment that normally contains the Cys active site residue.

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EMBL; X17435; CAA35479.1; -  
EMBL; X61207; CAA43516.1; -  
PIR; S16799; PR0007.  
HAMAP; MF\_00278; atypical; 1.  
InterPro; IPR000991; GATase\_1.  
Pfam; PF00117; GATase; 1.  
PROSITE; PS00442; GATASE\_TYPE\_I; FALSE NEG.  
KW Histidine biosynthesis; Transferase; Glutamine amidotransferase.  
FT ACT SITE 172 172 BY SIMILARITY.  
FT ACT SITE 174 174 BY SIMILARITY.  
SQ SEQUENCE 192 AA; 20826 MW; AB07AB18A14257B9 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 192;  
Best Local Similarity 100.0%; Pred. No. 43;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 64 RGLSEVP 70  
Db 62 RGLSEVP 68  
|||||

RESULT 28  
Y002 RHIME STANDARD; PRT; 199 AA.  
AC Q92TE1;  
DT 28-FEB-2003 (Rel. 41, Created)  
DT 28-FEB-2003 (Rel. 41, Last sequence update)  
DT 28-FEB-2003 (Rel. 41, Last annotation update)  
DE Maf-like protein R00002.  
GN R00002 OR SMC02792.  
OS Rhizobium meliloti (Sinorhizobium meliloti).  
OC Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;  
OC Rhizobiaceae; Sinorhizobium/Ensifer group; Sinorhizobium.  
OX NCBI\_TaxID=382;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=1021;  
RX MEDLINE=21396507; PubMed=11481430;  
RA Capela D., Barloy-Hubler F., Gouzy J., Bothe G., Ampe F., Batut J., Boistard P., Becker A., Boutry M., Cadieu E., Dreano S., Gloux S., Godrie T., Goffeau A., Kahn D., Kiss E., Lelaure V., Masuy D., Pohl T., Portetelle D., Puchler A., Purnelle B., Ramsberger U., Renard C., Thebault P., Vandenbol M., Weidner S., Gallibert F.;  
RA "Analysis of the chromosome sequence of the legume symbiont Sinorhizobium meliloti strain 1021."; Proc. Natl. Acad. Sci. U.S.A. 98:9877-9882(2001).  
RL -1- SUBCELLULAR LOCATION: Cytoplasmic (Potential).  
CC -1- SIMILARITY: BELONGS TO THE MAF FAMILY.  
CC  
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CC -----
CC EMBL; AL591782; CAC41389.1; -.
CC HAMAP; MF_00528; -. 1.
CC InterPro; IPR003697; Maf.
CC Pfam; PF02545; Maf; 1.
CC TIGRFAMs; TIGR00172; maf; 1.
CC Complete proteome. 34
CC ACT_SITE 34
CC SEQUENCE 199 AA; 21552 MW; 3CD5BE35283BC801 CRC64;
CC
CC Query Match
CC Best Local Similarity 1.1%; Score 7; DB 1; Length 199;
CC Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CC
CC QY 146 LSKLREL 152
CC DB 188 LSKLREL 194
CC
CC RESULT 29
CC PRL_PROAT
CC ID PRL_PROAT STANDARD; PRT; 200 AA.
CC AC P33091;
CC DT 01-OCT-1993 (Rel. 27, Created)
CC DT 01-OCT-1993 (Rel. 27, Last sequence update)
CC DT 28-FEB-2003 (Rel. 41, Last annotation update)
CC DE Prolactin (PRL).
CC GN PRL.
CC OS Protocterus aethiopicus (Marbled lungfish).
CC OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
CC OC Dipnoi; Lepidosteiiformes; Protopterygidae; Protopterus.
CC OX NCBI_TaxID=7886;
CC RN [1]_
CC RP SEQUENCE.
CC RC TISSUE=Pituitary;
CC RX MEDLINE=93320105; PubMed=8329446;
CC RA Noso T.; Nicoll C.S.; Kawachi H.;
CC RT "Lungfish prolactin exhibits close tetrapod relationships.";
CC RL Biochim. Biophys. Acta 1164:159-165(1993).
CC - SUBCELLULAR LOCATION: Secreted.
CC - TISSUE SPECIFICITY: PITUITARY GLANDS.
CC - SIMILARITY: BELONGS TO THE SOMATOTROPIN/PROLACTIN FAMILY.
CC HSP; Q28632; IAN3.
CC DR InterPro; IPR001400; Somatotropin.
CC DR Pfam; PF00103; Hormone; 1.
CC DR PROSITE; PS00266; SOMATOTROPIN_1; 1.
CC DR PROSITE; PS00338; SOMATOTROPIN_2; 1.
CC KW Hormone; Pituitary.
CC FT DISULFID 4 11 BY SIMILARITY.
CC FT DISULFID 59 175 BY SIMILARITY.
CC FT DISULFID 192 200 BY SIMILARITY.
CC FT VARIANT 22 22 R -> F.
CC FT VARIANT 41 41 F -> G.
CC SQ SEQUENCE 200 AA; 22904 MW; BBBA399B300443B CRC64;
CC
CC Query Match
CC Best Local Similarity 1.1%; Score 7; DB 1; Length 200;
CC Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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CC QY 67 SEVPQGI 73
CC DB 101 SEVPQGI 107
CC
CC RESULT 30
CC RL14 RAT
CC ID RL14 RAT STANDARD; PRT; 213 AA.
CC AC Q63507;
CC DT 01-NOV-1997 (Rel. 35, Created)
CC DT 01-NOV-1997 (Rel. 35, Last sequence update)
CC DT 01-NOV-1997 (Rel. 35, Last annotation update)
CC DE 60S ribosomal protein L14.

```

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GN RPL14.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]_
RP SEQUENCE FROM N.A., AND SEQUENCE OF 1-40 AND 119-141.
RC STRAIN=Sprague-Dawley; TISSUE=Liver;
RX MEDLINE=96222520; PubMed=8670222;
RA Chan Y.-L., Olivera J., Wool I.G.;
RT "The primary structure of rat ribosomal protein L14.";
RL Biochem. Biophys. Res. Commun. 222:427-431(1996).
CC - SIMILARITY: BELONGS TO THE L14E FAMILY OF RIBOSOMAL PROTEINS.
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CC
CC EMBL; X94242; CAA63926.1; -.
CC FIR; JC4808; JC4808.
CC DR InterPro; IPR005824; KOW.
CC DR InterPro; IPR002784; Ribosomal_L14e.
CC DR Pfam; PF00467; KOW; 1.
CC DR Pfam; PF01929; Ribosomal_L14e; 1.
CC KW Ribosomal protein; Repeat.
CC FT INIT MET 0
CC FT DOMAIN 159 188 4 X 5 AA TANDEM REPEATS OF Q-X-A-[AS]-X.
CC FT REPEAT 169 173 1-1.
CC FT REPEAT 174 178 1-2.
CC FT REPEAT 179 183 1-3.
CC FT REPEAT 184 188 1-4.
CC FT DOMAIN 192 197 2 X 3 AA TANDEM REPEATS OF K-G-Q.
CC FT REPEAT 192 194 2-1.
CC FT REPEAT 195 197 2-2.
CC SQ SEQUENCE 213 AA; 23207 MW; EL4856D6070A1A44 CRC64;
CC
CC Query Match
CC Best Local Similarity 1.1%; Score 7; DB 1; Length 213;
CC Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
CC
CC QY 33 AIAAAAA 39
CC DB 147 AIAAAA 153
CC
CC RESULT 31
CC LEF2_NPVLD
CC ID LEF2_NPVLD STANDARD; PRT; 216 AA.
CC AC P36869; Q90119;
CC DT 01-JUN-1994 (Rel. 29, Created)
CC DT 15-DEC-1998 (Rel. 37, Last sequence update)
CC DT 15-DEC-1998 (Rel. 37, Last annotation update)
CC DE Late expression factor 2.
CC GN LEF-2.
CC OS Lymantria dispar multicapsid nuclear polyhedrosis virus (LCMNPV).
CC OC Viruses; dsDNA viruses, no RNA stage; Baculoviridae;
CC OC Nucleopolyhedrovirus.
CC OX NCBI_TaxID=10449;
CC RN [1]_
CC RP SEQUENCE FROM N.A.
CC RX MEDLINE=92300345; PubMed=1607868;
CC RA Bjornson R.M., Kohnmann G.F.;
CC RT "Nucleotide sequence of the polyhedron envelope protein gene region
CC of the Lymantria dispar nuclear polyhedrosis virus.";
CC RL J. Gen. Virol. 73:1499-1504(1992).
CC RN [2]_
CC RP REVISIONS.
CC RA Kohnmann G.F.;
CC RA Submitted (SEP-1994) to the EMBL/GenBank/DBJ databases.

```





DR EMBL; AL627281; CAD08132.1; -  
 DR EMBL; AE016947; AA071494.1; -  
 DR HAMAP; MF 00495; -; 1.  
 DR InterPro; IPR006402; HAD-SF-IA-V3.  
 DR InterPro; IPR006439; HAD\_SF\_A\_v1.  
 DR InterPro; IPR005833; Hlg\_nase/hydriase.  
 DR InterPro; IPR005834; Hydrolase.  
 DR InterPro; IPR006346; PGP\_bact.  
 DR Pfam; PF00702; Hydrolase; 1.  
 DR PRINTS; PR00413; HADHALOGNASE.  
 DR TIGRFAMs; TIGR01549; HAD-SF-IA-V1; 1.  
 DR TIGRFAMs; TIGR01509; HAD-SF-IA-V3; 1.  
 DR TIGRFAMs; TIGR01449; PGP\_bact; 1.  
 DR Carbohydrate metabolism; Hydrolase; Complete proteome.  
 DR CONFLICT 100 100 X -> R (IN REF. 2).  
 Q SEQUENCE 252 AA; 27250 MW; BD01BFD696GED373 CRC64;  
 Query Match 1.1%; Score 7; DB 1; Length 252;  
 Best Local Similarity 100.0%; Pred. No. 54;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Y 571 VDEDIPA 577  
 |||||  
 b 81 VDEDIPA 87  
 |||||  
 RESULT 36  
 PH\_SALTY STANDARD; PRT; 252 AA.  
 AC Q8ZLKS;  
 VT 28-FEB-2003 (Rel. 41, Created)  
 VT 28-FEB-2003 (Rel. 41, Last sequence update)  
 VT 28-FEB-2003 (Rel. 41, Last annotation update)  
 VE Phosphoglycolate phosphatase (EC 3.1.3.18) (PGP).  
 RN GPH OR SM3482.  
 IS Salmonella typhimurium.  
 C Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;  
 C Enterobacteriaceae; Salmonella.  
 X NCBI\_TaxID=602;  
 N [1]  
 P SEQUENCE FROM N.A.  
 X STRAIN=LT2 / SGSC1412 / ATCC 700720;  
 X MEDLINE=21534948; PubMed=11677609;  
 A McClelland M., Sanderson K.E., Spieth J., Clifton S.W., Latreille P.,  
 A Courtney L., Porwollik S., Ali J., Dante M., Du P., Hou S., Layman D.,  
 A Leonard S., Nguyen C., Scott K., Holmes A., Grewal N., Mulvaney E.,  
 A Ryan B., Sun H., Flores L., Miller W., Stoneking T., Nhan M.,  
 A Waterston R., Wilson R.K.;  
 T "Complete genome sequence of Salmonella enterica serovar Typhimurium  
 LT2.";  
 L Nature 413:852-856(2001).  
 C -!- CATALYTIC ACTIVITY: 2-phosphoglycolate + H(2)O = glycolate +  
 phosphate.  
 C -!- SIMILARITY: BELONGS TO THE CBBY/CBBZ/GPH/YIEH FAMILY.  
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 or send an email to license@isb-sib.ch).  
 C EMBL; AE008860; AAL22344.1; -  
 R HAMAP; MF 00495; -; 1.  
 R InterPro; IPR006402; HAD-SF-IA-V3.  
 R InterPro; IPR006439; HAD\_SF\_A\_v1.  
 R InterPro; IPR005833; Hlg\_nase/hydriase.  
 R InterPro; IPR005834; Hydrolase.  
 R Pfam; PF00702; Hydrolase; 1.  
 R PRINTS; PR00413; HADHALOGNASE.

DR TIGRFAMs; TIGR01549; HAD-SF-IA-V1; 1.  
 DR TIGRFAMs; TIGR01509; HAD-SF-IA-V3; 1.  
 DR TIGRFAMs; TIGR01449; PGP\_bact; 1.  
 KW Carbohydrate metabolism; Hydrolase; Complete proteome.  
 SQ SEQUENCE 252 AA; 27303 MW; 1216F19E6D086B97 CRC64;  
 Query Match 1.1%; Score 7; DB 1; Length 252;  
 Best Local Similarity 100.0%; Pred. No. 54;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 571 VDEDIPA 577  
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 Db 81 VDEDIPA 87  
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 RESULT 37  
 Y351 CAUCR STANDARD; PRT; 254 AA.  
 ID Y351 CAUCR  
 AC Q9AE80;  
 DT 16-OCT-2001 (Rel. 40, Created)  
 DT 16-OCT-2001 (Rel. 40, Last sequence update)  
 DT 16-OCT-2001 (Rel. 40, Last annotation update)  
 DE Putative outer membrane protein CC0351 precursor.  
 GN CC0351.  
 OS Caulobacter crescentus.  
 OC Bacteria; Proteobacteria; Alphaproteobacteria; Caulobacteriales;  
 OC Caulobacteraceae; Caulobacter.  
 OX NCBI\_TaxID=155892;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=ATCC 19089 / CB15;  
 EX MEDLINE=21173698; PubMed=11259647;  
 RA Nierman W.C., Feldblyum T.V., Laub M.T., Paulsen I.T., Nelson K.E.,  
 RA Eisen J., Heidelberg J.F., Alley M.R.K., Ohta N., Maddock J.R.,  
 RA Potocka I., Nelson W.C., Newton A., Stephens C., Phadke N.D., Ely B.,  
 RA DeBoy R.T., Dodson R.J., Durkin A.S., Gwinn M.L., Haft D.H.,  
 RA Kolonay J.F., Smit J., Craven M.B., Khouri H., Shetty J., Berry K.,  
 RA Kutterback T., Tran K., Wolf A., Vamathevan J., Ermolaeva M., White O.,  
 RA Salzberg S.L., Venter J.C., Shapiro L., Fraser C.M.;  
 RT "Complete genome sequence of Caulobacter crescentus.";  
 RL Proc. Natl. Acad. Sci. U.S.A. 98:4136-4141(2001).  
 CC -!- SUBCELLULAR LOCATION: Outer membrane (Potential).  
 CC -!- SIMILARITY: BELONGS TO THE MIPA/OMPV FAMILY.  
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 C EMBL; AE005708; AAK22338.1; -  
 DR PIR; F87292; F87292.  
 DR TIGR; CC0351; -  
 KW Hypothetical protein; Outer membrane; Signal; Complete proteome.  
 FT SIGNAL 1 26 POTENTIAL.  
 FT CHAIN 27 254 PUTATIVE OUTER MEMBRANE PROTEIN CC0351.  
 SQ SEQUENCE 254 AA; 26231 MW; E946D22C14A13657 CRC64;  
 Query Match 1.1%; Score 7; DB 1; Length 254;  
 Best Local Similarity 100.0%; Pred. No. 55;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 577 AATSAAA 593  
 |||||  
 Db 20 AATSAAA 26  
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 RESULT 38  
 DAPP HELPJ STANDARD; PRT; 273 AA.  
 ID DAPP HELPJ  
 AC Q9ZLE5;

DT 30-MAY-2000 (Rel. 39, Created)  
 DT 30-MAY-2000 (Rel. 39, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE Diaminopimelate epimerase (EC 5.1.1.7) (DAP epimerase).  
 GN DAPF OR JHP0513.  
 OS Helicobacter pylori J99 (Campylobacter pylori J99).  
 OC Bacteria; Proteobacteria; Epsilonproteobacteria; Campylobacteriales;  
 OC Helicobacteraceae; Helicobacter.  
 OX NCBI\_TaxID=85963;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=99120557; PubMed=9923692;  
 RA Alm R.A., Ling L.-S.L., Moir D.T., King B.L., Brown E.D., Doig P.C.,  
 RA Smith D.R., Noonan B., Guild B.C., deVonge B.L., Carmel G.,  
 RA Tummino P.J., Caruso A., Uria-Nickelsen M., Mills D.M., Ives C.,  
 RA Gibson R., Merberg D., Mills S.D., Jiang Q., Taylor D.E., Vovis G.F.,  
 RA Trust T.J.;  
 RT "Genomic sequence comparison of two unrelated isolates of the human  
 RT gastric pathogen Helicobacter pylori.";  
 RL Nature 397:176-180(1999).  
 CC -!- CATALYTIC ACTIVITY: LL-2,6-diaminoheptanedioate = meso-  
 CC diaminoheptanedioate.  
 CC -!- PATHWAY: Biosynthesis of lysine from aspartate semialdehyde; sixth  
 CC step.  
 CC -!- SUBCELLULAR LOCATION: Cytoplasmic (By similarity).  
 CC -!- SIMILARITY: Belongs to the diaminopimelate epimerase family.  
 CC  
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 CC  
 CC EMBL; A8001484; AAD05089.1; -;  
 DR PIR; G71923; G71923.  
 DR HAMAP; MF 00197; -; 1.  
 DR InterPro; IPR001653; DAP epimerase.  
 DR Pfam; PF01678; DAP epimerase; 2.  
 DR TIGRFAMS; TIGR00652; DAPF; 1.  
 DR PROSITE; PS01326; DAP\_EPIMERASE; 1.  
 KW Isomerase; Lysine biosynthesis; Complete proteome.  
 FT ACT SITE 69 69 BY SIMILARITY.  
 FT ACT SITE 209 209 BY SIMILARITY.  
 SQ SEQUENCE 273 AA; 30661 MW; C63F458B833841D8 CRC64;  
 Query Match 1.1%; Score 7; DB 1; Length 273;  
 Best Local Similarity 100.0%; Pred.No. 58;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 124 SLNTLEL 130  
 DB 165 SLNTLEL 171  
 RESULT 39  
 DAPF\_HELPY  
 ID \_DAPF\_HELPY STANDARD; PRT; 273 AA.  
 AC Q05250;  
 DT 15-DEC-1998 (Rel. 37, Created)  
 DT 15-DEC-1998 (Rel. 37, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE Diaminopimelate epimerase (EC 5.1.1.7) (DAP epimerase).  
 GN DAPF OR HP0566.  
 OS Helicobacter pylori (Campylobacter pylori).  
 OC Bacteria; Proteobacteria; Epsilonproteobacteria; Campylobacteriales;  
 OC Helicobacteraceae; Helicobacter.  
 OX NCBI\_TaxID=210;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX STRAIN=26695 / ATCC 700392;  
 RX MEDLINE=97394467; PubMed=9252185;

RA Tomb J.-F., White O., Kerlavage A.R., Clayton R.A., Sutton G.G.,  
 RA Fleischmann R.D., Ketchum K.A., Klenk H.-P., Gill S., Dougherty B.A.,  
 RA Nelson K., Quackenbush J., Zhou L., Kirkness E.F., Peterson S.,  
 RA Loftus B., Richardson D., Dodson R., Khalak H.G., Glodek A.,  
 RA McKenney K., Fitzgerald L.M., Lee N., Adams M.D., Hickey E.K.,  
 RA Berg D.E., Gocayne J.D., Uterback T.R., Peterson J.D., Kelley J.M.,  
 RA Hayton M.D., Weidman J.M., Fujii C., Bowman C., Watthey L., Wallin E.,  
 RA Cotton W.S., Borodovsky M., Karp P.D., Smith H.O., Fraser C.M.,  
 RA Venter J.C.;  
 RT "The complete genome sequence of the gastric pathogen Helicobacter  
 RT pylori.";  
 RL Nature 388:539-547(1997).  
 CC -!- CATALYTIC ACTIVITY: LL-2,6-diaminoheptanedioate = meso-  
 CC diaminoheptanedioate.  
 CC -!- PATHWAY: Biosynthesis of lysine from aspartate semialdehyde; sixth  
 CC step.  
 CC -!- SUBCELLULAR LOCATION: Cytoplasmic (By similarity).  
 CC -!- SIMILARITY: Belongs to the diaminopimelate epimerase family.  
 CC  
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 CC  
 CC EMBL; A5000570; AAD07622.1; -;  
 DR PIR; F64590; F64590.  
 DR TIGR; HP0566; -;  
 DR HAMAP; MF 00197; -; 1.  
 DR InterPro; IPR001653; DAP epimerase.  
 DR Pfam; PF01678; DAP epimerase; 2.  
 DR TIGRFAMS; TIGR00652; DAPF; 1.  
 DR PROSITE; PS01326; DAP\_EPIMERASE; 1.  
 KW Isomerase; Lysine biosynthesis; Complete proteome.  
 FT ACT SITE 69 69 BY SIMILARITY.  
 FT ACT SITE 209 209 BY SIMILARITY.  
 SQ SEQUENCE 273 AA; 30500 MW; 73F3D7917AD35ACD CRC64;  
 Query Match 1.1%; Score 7; DB 1; Length 273;  
 Best Local Similarity 100.0%; Pred.No. 58;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 124 SLNTLEL 130  
 DB 165 SLNTLEL 171  
 RESULT 40  
 CYCG\_RHOSH  
 ID \_CYCG\_RHOSH STANDARD; PRT; 296 AA.  
 AC Q53143;  
 DT 01-NOV-1997 (Rel. 35, Created)  
 DT 01-NOV-1997 (Rel. 35, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE Diheme cytochrome C-type.  
 DE Cytochrome C-type.  
 GN CYCG.  
 OS Rhodobacter sphaeroides (Rhodospseudomonas sphaeroides).  
 OC Bacteria; Proteobacteria; Alphaproteobacteria; Rhodobacterales;  
 OC Rhodobacteraceae; Rhodobacter.  
 OX NCBI\_TaxID=1063;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX STRAIN=ATCC 17023 / 2.4.1 / NCIB 8253 / DSM 158;  
 RX MEDLINE=95362655; PubMed=7543472;  
 RA Flory J.E., Donohue T.J.;  
 RA "Organization and expression of the Rhodobacter sphaeroides *cycFG*  
 RA operon.";  
 RT J. Bacteriol. 177:4311-4320(1995).  
 CC -!- FUNCTION: DIHEME C-TYPE CYTOCHROME, THAT IS PARTICULARLY EXPRESSED  
 CC WHEN CELLS GENERATE ENERGY VIA AEROBIC RESPIRATION.  
 CC -!- SUBCELLULAR LOCATION: Membrane-bound.

!- PTM: BINDS TWO HEME GROUPS PER MOLECULE (POTENTIAL).  
 !- SIMILARITY: TO ACETOACETAL ALCOHOL DEHYDROGENASE CYTOCHROME C SUBUNIT.  
 -----  
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 -----  
 ENBL; L36880; RAD09146.1; --  
 InterPro: IPR003088; Cyt C1.  
 InterPro: IPR003219; Cyt C ad.  
 InterPro: IPR000345; Cyt C heme bind.  
 Pfam: PF00034; cytochrome c; 1.  
 ProDom: PD011584; Cytochrome C; 1.  
 R PROSITE; PS00190; CYTOCHROME C; 2.  
 W Electron transport; Heme; Membrane.  
 F BINDING 52 HEME 1 (COVALENT) (BY SIMILARITY).  
 T BINDING 55 HEME 1 (COVALENT) (BY SIMILARITY).  
 T BINDING 56 HEME 1 (COVALENT) (BY SIMILARITY).  
 T METAL 56 IRON (HEME 1 AXIAL LIGAND) (BY SIMILARITY).  
 T BINDING 202 HEME 2 (COVALENT) (BY SIMILARITY).  
 T BINDING 205 HEME 2 (COVALENT) (BY SIMILARITY).  
 T METAL 206 IRON (HEME 2 AXIAL LIGAND) (BY SIMILARITY).  
 Q SEQUENCE 296 AA; 31727 MW; 4C4A9D8F695B5B5FDC CRC64;  
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 Query Match 1.1%; Score 7; DB 1; Length 296;  
 Best Local Similarity 100.0%; Pred. No. 63;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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 Y 336 RGYLYE 342  
 b 191 RGYLYE 197  
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 RESULT 41  
 ENA\_BACSU STANDARD; PRT; 311 AA.  
 D MENA\_BACSU  
 C P39582;  
 T 01-FEB-1995 (Rel. 31, Created)  
 T 01-FEB-1995 (Rel. 31, Last sequence update)  
 T 28-FEB-2003 (Rel. 41, Last annotation update)  
 E Probable 1,4-dihydroxy-2-naphthoate octaprenyltransferase (EC 2.5.1.1.-) (DHNA-octaprenyltransferase).  
 N MENA OR IPA-6D.  
 S Bacillus subtilis.  
 X Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.  
 X NCBI\_TaxID=1423;  
 N [1]  
 P SEQUENCE FROM N.A.  
 C STRAIN=168;  
 X MEDLINE=95020537; PubMed=7934828;  
 A Glaser P., Kunst P., Arnaud M., Coudart M.P., Gonzales W.,  
 A Hullo M.F., Ionescu M., Lubchinsky B., Marcelino L., Moszer I.,  
 A Prescan E., Santana M., Schneider E., Schweizer J., Vertes A.,  
 A Rapoport G., Danchin A.;  
 T "Bacillus subtilis genome project: cloning and sequencing of the 97  
 T kb region from 325 degrees to 333 degrees.";  
 L Mol. Microbiol. 10:371-384(1993).  
 P [2]  
 N SEQUENCE FROM N.A.  
 C STRAIN=168;  
 X MEDLINE=98040333; PubMed=9384377;  
 A Kunst P., Ogasawara N., Moszer I., Albertini A.M., Alloni G.,  
 A Azevedo V., Bertero M.G., Bessieres P., Bolotin A., Borchert S.,  
 A Borriess R., Boursier L., Brans A., Braun M., Brignell S.C., Bron S.,  
 A Brouillet S., Bruschi C.V., Caldwell B., Capuano V., Carter N.M.,  
 A Choi S.K., Codani J.J., Conerton I.F., Cummings N.J., Daniel R.A.,  
 A Denizot F., Devine K.M., Dusterhoft A., Ehrlich S.D., Emerson P.T.,

RA Enian K.D., Errington J., Fabret C., Ferrari E., Foulger D.,  
 RA Fritz C., Fujita M., Fujita Y., Fuma S., Galizzi A., Galleron N.,  
 RA Ghim S.Y., Glaser P., Goffeau A., Golightly E.J., Grandi G.,  
 RA Guiseppi G., Guy B.J., Haga K., Haech J., Harwood C.R., Henaut A.,  
 RA Hilbert H., Holteppel S., Hosono S., Hullo M.P., Itaya M., Jones L.,  
 RA Joris B., Karamata D., Kasahara Y., Klaert-Blanchard M., Klein C.,  
 RA Kobayashi Y., Koetter P., Koningsstein G., Krogh S., Kumano M.,  
 RA Kurita K., Lapidus A., Lardinois S., Lauber J., Lazarevic V.,  
 RA Lee S.M., Levine A., Liu H., Masuda S., Maul C., Medigue C.,  
 RA Medina N., Mellado R.P., Mizuno M., Moestl D., Nakai S., Noback M.,  
 RA Moore D., O'Reilly M., Ogawa K., Ogiwara A., Oudega B., Park S.H.,  
 RA Parro V., Pohl T.M., Portetelle D., Porwollik S., Prescott A.M.,  
 RA Prescan E., Pujic P., Purnelle B., Rapoport G., Rey M., Reynolds S.,  
 RA Rieger M., Rivolta C., Rocha E., Roche B., Rose M., Sadaie Y.,  
 RA Sato T., Scanlan B., Scheich S., Schroeter R., Scoffone P.,  
 RA Seroguchi J., Sekowska A., Seror S.J., Serror P., Shin B.S., Soldo B.,  
 RA Sorokin A., Tacconi E., Takagi T., Takahashi H., Takemaru K.,  
 RA Toseuchi M., Tamakoshi A., Tanaka T., Terpstra P., Tognoni A.,  
 RA Tosato V., Uchiyama S., Vandenbol M., Vannier P., Vassarotti A.,  
 RA Viari A., Wambutt R., Wedler E., Wedler H., Weitzenecker T.,  
 RA Winters P., Wipat A., Yamamoto H., Yanane K., Yasumoto K., Yata K.,  
 RA Yoshida K., Yoshikawa H.F., Zumstein E., Yoshikawa H., Danchin A.,  
 RT "the complete genome sequence of the Gram-positive bacterium Bacillus subtilis.";  
 RT Nature 390:249-256(1997).  
 RL !- FUNCTION: CONVERSION OF 1,4-DIHYDROXY-2-NAPHTHOATE (DHNA) TO DIMETHYLMENAQUINONE (DMK). ATTACHES OCTAPRENYLPYROPHOSPHATE A MEMBRANE-BOUND 40-CARBON SIDE CHAIN TO DHNA. THE CONVERSION OF DHNA TO DMK PROCEEDS IN THREE STAGES: THE REMOVAL OF THE CARBOXYL GROUP OF DHNA AS CO<sub>2</sub>, THE ATTACHMENT OF THE ISOPRENOID SIDE CHAIN, AND A QUINOL-TO-QUINONE OXIDATION, WHICH IS THOUGHT TO BE SPONTANEOUS (BY SIMILARITY).  
 CC !- PATHWAY: Menaquinone biosynthesis.  
 CC !- SUBCELLULAR LOCATION: Integral membrane protein (Potential).  
 CC !- SIMILARITY: BELONGS TO THE MENA FAMILY.  
 CC -----  
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 CC -----  
 CC ENBL; X73124; CAAS1562.1; --  
 DR ENBL; Z99123; CAB15875.1; --  
 DR PIR; S39661; S39661.  
 DR Subtilist; BG10552; mena.  
 DR InterPro: IPR000537; Ubia.  
 DR Pfam; PF01040; Ubia; 1.  
 DR Menaquinone biosynthesis; Transferase; Transmembrane;  
 KW Complete proteome.  
 FT TRANSMEM 31 51 POTENTIAL.  
 FT TRANSMEM 53 73 POTENTIAL.  
 FT TRANSMEM 117 137 POTENTIAL.  
 FT TRANSMEM 157 177 POTENTIAL.  
 FT TRANSMEM 182 202 POTENTIAL.  
 FT TRANSMEM 220 240 POTENTIAL.  
 FT TRANSMEM 242 262 POTENTIAL.  
 FT TRANSMEM 290 310 POTENTIAL.  
 SQ SEQUENCE 311 AA; 33838 MW; AS880C89AC5E8F55 CRC64;  
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 Query Match 1.1%; Score 7; DB 1; Length 311;  
 Best Local Similarity 100.0%; Pred. No. 65;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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 QY 535 AVTLAA 541  
 Db 229 AVTLAA 235  
 -----  
 RESULT 42  
 RLAA0\_YEAST





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EMBL: U20371; AAA85711.1; --  
EMBL: U20370; AAA85710.1; --  
PIR: G37290; G37290.  
HSSP: PA4653; LB72.  
TRANSFAC: TG1717; --

MGD: MGI:96172; Hoxall.

GO: GO:0001503; P:skeletal development; IMP.

InterPro: IPR001356; Homeobox.

Pfam: PF00046; homeobox; 1.

ProDom: PD000010; Homeobox; 1.

SMART: SM00389; Hox; 1.

PROSITE: PS00027; HOMEBOX\_1; 1.

PROSITE: PS50071; HOMEBOX\_2; 1.

Homeobox; DNA-binding; Developmental protein; Nuclear protein;

Transcription regulation.

DOMAIN 172 175 POLY-ALA.

DOMAIN 178 185 POLY-ALA.

DOMAIN 196 201 POLY-GLU.

DOMAIN 212 215 POLY-ARG.

DOMAIN 218 221 POLY-SER.

DOMAIN 241 300 HOMEBOX.

DNA BIND 241 300 HOMEBOX.

SEQUENCE 313 AA; 34484 MW; 07BE80F8E2225B3E CRC64;

Query Match 1.1%; Score 7; DB 1; Length 313;

Best Local Similarity 100.0%; Pred.No. 66;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

577 MATSAAA 583

|||||

174 MATSAAA 180

RESULT 44

YBU\_ECOLI

YBU\_ECOLI STANDARD; PRT; 331 AA.

P45527;

01-NOV-1995 (Rel. 32, Created)

01-NOV-1995 (Rel. 32, Last sequence update)

16-OCT-2001 (Rel. 40, Last annotation update)

Putative protease ybbU precursor (EC 3.4.-.-).

YBU OR B3158.

Escherichia coli.

Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;

Enterobacteriaceae; Escherichia.

NCBI\_TaxID=562;

[1]

SEQUENCE FROM N.A.

STRAIN-K12 / MG1655;

MEDLINE=97426617; PubMed=9278503;

Blattner F.R., Plunkett G. III, Bloch C.A., Perna N.T., Burland V.,

Riley M., Collado-Vides J., Glasner J.D., Rode C.K., Mayhew G.F.,

Gregor J., Davis N.W., Kirkpatrick H.A., Goeden M.A., Rose D.J.,

Mau B., Shao Y.;

"The complete genome sequence of Escherichia coli K-12.";

Science 277:1453-1474(1997).

-!- SIMILARITY: BELONGS TO PEPTIDASE FAMILY U32.

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EMBL: U18997; AAA57961.1; --

PIR: A6000396; AAC76192.1; --

EMBL: B65106; B65106.

MEROPS: U32.UPW; --

EcoGene; EG12790; ybbU.

DR InterPro: IPR001539; Peptidase U32.  
DR Pfam: PF01136; Peptidase U32; 1.  
DR ProDom: PD004398; Peptidase U32; 1.  
DR PROSITE: PS01276; PEPTIDASE\_U32; 1.  
KW Hypothetical protein; Hydrolase; Protease; Signal; Complete proteome.  
FT SIGNAL 1 15 POTENTIAL.  
FT CHAIN 16 331 PUTATIVE PROTEASE YBBU.  
SQ SEQUENCE 331 AA; 37047 MW; 2AFDE5929C4CFA7 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 331;

Best Local Similarity 100.0%; Pred.No. 69;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 124 SLNTLEL 130

|||||

DB 251 SLNTLEL 257

RESULT 45

TISB\_HUMAN

AC Q07352; Q13851; STANDARD; PRT; 338 AA.

DT 01-FEB-1996 (Rel. 33, Created)

DT 01-FEB-1996 (Rel. 33, Last sequence update)

DT 15-SEP-2003 (Rel. 42, Last annotation update)

DE Butyrate response factor 1 (TIS11B protein) (BGF-response factor 1)

(ERF-1).

GN ZFP36L1 OR BRP1 OR TIS11B OR BRP1 OR BERG36.

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

OX NCBI\_TaxID=9606;

RN [1]

RP SEQUENCE FROM N.A.

RX MEDLINE=93347999; PubMed=8346037;

RA Barnard R.C., Pascall J.C., Brown K.D., McKay I.A., Williams N.S.,

Bustin S.A.;

RT "Coding sequence of ERF-1, the human homologue of Tis11b/CHG1,

members of the Tis11 family of early response genes.";

RL Nucleic Acids Res. 21:3580-3580(1993).

RN [2]

RP SEQUENCE FROM N.A.

RX MEDLINE=94296548; PubMed=8024689;

RA Brown K.D., Nie X.F., Barnard R.C., Kumar V., Pascall J.C.,

Bustin S.A., Leigh I.M., Williams N.S., McKay I.A.;

RT "Cloning and characterization of ERF-1, a human member of the Tis11

family of early-response genes.";

RL DNA Cell Biol. 13:449-459(1994).

RN [3]

RP SEQUENCE FROM N.A.

RX MEDLINE=97054648; PubMed=8898945;

RA Ning Z.Q., Norton J.D., Li J., Murphy J.J.;

RT "Distinct mechanisms for rescue from apoptosis in Ramos human B cells

by signaling through CD40 and interleukin-4 receptor: role for

inhibition of an early response gene, Berg36.";

RL Eur. J. Immunol. 26:2356-2363(1996).

RN [4]

RP SEQUENCE FROM N.A.

RC TISSUE=Ovary.

RA MEDLINE=2238257; PubMed=12477932;

RA Klausner R.D., Collins P.S., Wagner L., Shennen C.M., Schuler G.D.,

Altschul S.P., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

Stapleton M., Soares M.B., Bonaldo M.F., Casavert T.L., Scheetz T.E.,

Rana S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,

Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gumaratne P.H.,

Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

Fahy J., Helton E., Kettaman M., Madan A., Rodrigues S., Sanchez A.,

Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.;



T ZN FING 120 139 C3H1-TYPE 1.  
 T ZN FING 158 177 C3H1-TYPE 2.  
 T DOMAIN 307 316 POLY-SER.  
 Q SEQUENCE 338 AA; 36398 MW; A1547C8BF566196C CRC64;  
 Query Match 1.1%; Score 7; DB 1; Length 338;  
 Best Local Similarity 100.0%; Pred. No. 70;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Y 580 SAAATAA 586  
 |||||  
 b 209 SAAATAA 215  
 RESULT 48  
 MRO DROVI STANDARD; PRT; 339 AA.  
 C P18264;  
 T 01-NOV-1990 (Rel. 16, Created)  
 T 01-NOV-1990 (Rel. 16, Last sequence update)  
 T 16-OCT-2001 (Rel. 40, Last annotation update)  
 E Homeobox protein rough.  
 N RO.  
 S Drosophila virilis (Fruit fly).  
 C Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
 C Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
 C Ephydroidea; Drosophilidae; Drosophila.  
 X NCBI\_TaxID=7244;  
 [1]  
 N SEQUENCE FROM N.A.  
 MEDLINE=90332693; PubMed=1974051;  
 K Heberlein U., Rubin G.M.;  
 A "Structural and functional comparisons of the Drosophila virilis and  
 T Drosophila melanogaster rough Genes.";  
 L Proc. Natl. Acad. Sci. U.S.A. 87:5916-5920(1990).  
 C -!- FUNCTION: ROUGH SEEMS TO BE IMPLICATED IN THE PATTERN FORMATION  
 C IN THE DEVELOPING EYE OF FRUIT FLY.  
 C -!- SUBCELLULAR LOCATION: Nuclear (Probable).  
 C This SWISS-PROT entry is copyright. It is produced through a collaboration  
 C between the Swiss Institute of Bioinformatics and the EMBL outstation -  
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 C or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch)).  
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 EMBL; M35372; AAA28861.1; -  
 R PIR; A35967; A35967.  
 R HSP; P14653; I872.  
 R TRANSPAC; T02093; -  
 R FlyBase; FBgn0013136; Dvir1ro.  
 R InterPro; IPR001355; Homeobox.  
 R InterPro; IPR000047; HTH\_lambdarepressr.  
 R Pfam; PF00046; homeobox; 1.  
 R PRINTS; PR00024; HOMEBOX.  
 R PRINTS; PR00031; HTHREPRESSR.  
 R ProDom; PD000010; Homeobox; 1.  
 R SMART; SM00389; Hox; 1.  
 R PROSITE; PS00027; HOMEBOX 1; 1.  
 R PROSITE; PS00771; HOMEBOX 2; 1.  
 W Homeobox; DNA-binding; Developmental protein; Nuclear protein;  
 W Vision.  
 T DOMAIN 164 223 HOMEBOX.  
 T DOMAIN 301 324 GLN-RICH.  
 Q SEQUENCE 339 AA; 37762 MW; D3EC90A1337093E0 CRC64;  
 Query Match 1.1%; Score 7; DB 1; Length 339;  
 Best Local Similarity 100.0%; Pred. No. 71;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Y 580 SAAATAA 586  
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Db 259 SAAATAA 265  
 RESULT 49  
 YJ44 ARCFU STANDARD; PRT; 345 AA.  
 AC O2B335;  
 DT 16-OCT-2001 (Rel. 40, Created)  
 DT 16-OCT-2001 (Rel. 40, Last sequence update)  
 DT 16-OCT-2001 (Rel. 40, Last annotation update)  
 DE Hypothetical protein AF1944.  
 GN AF1944.  
 OS Archaeoglobus fulgidus.  
 OC Archaea; Euryarchaeota; Archaeoglobi; Archaeoglobales;  
 OC Archaeoglobaceae; Archaeoglobus.  
 OX NCBI\_TaxID=2234;  
 [1]  
 RN SEQUENCE FROM N.A.  
 RP STRAIN=VC-16 / DSM 4304 / ATCC 49558;  
 RC MEDLINE=98049343; PubMed=9389475;  
 RA Klenk H.-P., Clayton R.A., Tomb J.-F., White O., Nelson K.E.,  
 RA Ketchum K.A., Dodson R.J., Gwinn M., Hickey E.K., Peterson J.D.,  
 RA Richardson D.L., Kerlavage A.R., Graham D.E., Kyrpides N.C.,  
 RA Fleischmann R.D., Quackenbush J., Lee N.H., Sutton G.G., Gill S.,  
 RA Kirkness E.F., Dougherty B.A., McKenney K., Adams M.D., Loftus B.,  
 RA Peterson S., Reich C.I., McNeil L.K., Badger J.H., Glodek A., Zhou L.,  
 RA Overbeek R., Gocayne J.D., Weidman J.E., McDonald L., Utterback T.,  
 RA Cotton M.D., Spriggs T., Artlich P., Kaine B.P., Sykes S.W.,  
 RA Sadow P.W., D'Andrea K.P., Bowman C., Fujii C., Garland S.A.,  
 RA Mason T.M., Olsen G.J., Fraser C.M., Smith H.O., Woese C.R.,  
 RA Venter J.C.;  
 RT "The complete genome sequence of the hyperthermophilic, sulphate-  
 RT reducing archaeon Archaeoglobus fulgidus.";  
 RL Nature 390:364-370(1997).  
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 EMBL; AE000969; AAB89314.1; -  
 R PIR; G69492; G69492.  
 R TIGR; AF1944; -  
 R Hypothetical protein; Complete proteome.  
 R SEQUENCE 345 AA; 39312 MW; D2D7684D1CE53B79 CRC64;  
 Query Match 1.1%; Score 7; DB 1; Length 345;  
 Best Local Similarity 100.0%; Pred. No. 72;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 175 RLDIGEL 181  
 |||||  
 Db 78 RLDIGEL 84  
 RESULT 50  
 IF35 HUMAN STANDARD; PRT; 357 AA.  
 ID IF35 HUMAN  
 AC O00303;  
 DT 30-MAY-2000 (Rel. 39, Created)  
 DT 30-MAY-2000 (Rel. 39, Last sequence update)  
 DT 15-SEP-2003 (Rel. 42, Last annotation update)  
 DE Eukaryotic translation initiation factor 3 subunit 5 (eIF-3 epsilon)  
 DE (eIF3 p47 subunit) (eIF3f).  
 GN EIF3S5.  
 OS Homo sapiens (Human).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 [1]

Search completed: February 5, 2004, 16:00:50  
Job time : 21 secs

RP SEQUENCE FROM N.A.  
RC TISSUE=Liver;  
RX MEDLINE=98001678; PubMed=9341143;  
RA Asano K., Vornlocher H.-P., Richter-Cook N.J., Merrick W.C.,  
RA Hinnebusch A.G., Hershey J.W.B.;  
RT "Structure of cDNAs encoding human eukaryotic initiation factor 3  
RT subunits. Possible roles in RNA binding and macromolecular assembly.";  
RL J. Biol. Chem. 272:27042-27052(1997).  
RN [2]  
RP SEQUENCE FROM N.A.  
RC TISSUE=Lung;  
RX MEDLINE=22388257; PubMed=12477932;  
RA Klausner R.D., Feingold E.A., Grouse L.H., Derge J.G.,  
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,  
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.P., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,  
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,  
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,  
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,  
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Villallon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
RA Pabey J., Helton E., Kettner M., Madan A., Rodriguez S., Sanchez A.,  
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smallus D.E.,  
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;  
RT "Generation and initial analysis of more than 15,000 full-length  
RT human and mouse cDNA sequences.";  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
CC -!- FUNCTION: BINDS TO THE 40S RIBOSOME AND PROMOTES THE BINDING OF  
CC METHIONYL-TRNAI AND MRNA. ASSOCIATES WITH THE COMPLEX EIF0-EIF3.  
CC -!- SUBUNIT: EIF-3 IS COMPOSED OF AT LEAST 12 DIFFERENT SUBUNITS.  
CC -!- SIMILARITY: Contains 1 MPN (JAB/Mov34) domain.  
CC -----  
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CC -----  
CC EMBL; U94855; AAD03467.1; -;  
DR EMBL; EC000490; AHH00490.1; -;  
DR Genew; HGNC:3275; EIF3B5.  
DR GK; O00303; -;  
DR MIM; 603914; -;  
DR GO; GO:0005852; C:eukaryotic translation initiation factor 3 . . . ; TAS.  
DR GO; GO:0003743; P:translation initiation factor activity; TAS.  
DR GO; GO:0006446; P:regulation of translational initiation; TAS.  
DR InterPro; IPR000555; Mov34.  
DR InterPro; IPR003640; Mov34\_2.  
DR Pfam; PF01398; Mov34; 1.  
DR ProDom; PD363422; Mov34\_1; 1.  
DR ProDom; PD005425; Mov34\_2; 1.  
DR SMART; SM00232; JAB MPN; 1.  
KW Initiation factor; Protein biosynthesis; Polymorphism.  
PT VARIANT 172 172 W> L (IN dbSNP:1044058).  
FT /FTID=VAR\_014452.  
SQ SEQUENCE 357 AA; 37564 MW; 8A70FC6E2BF07737 CRC64;

Query Match 1.1%; Score 7; DB 1; Length 357;  
Best Local Similarity 100.0%; Pred.No. 74;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2Y 581 AAATAAP 587  
|  
|  
|  
|  
|  
53 AAATAAP 59

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M protein - protein search, using sw model

un on: February 5, 2004, 15:58:02 ; Search time 40 Seconds

(without alignments)  
4212.709 Million cell updates/sec

title: US-09-989-279-229

effect score: 653

sequence: 1 MXLLMQVTHHTWNAILLP.....ISEPVIIQTHEDKAVQSTQI 653

scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

searched: 830525 seqs, 258052604 residues

word size : 6

Total number of hits satisfying chosen parameters: 9193

minimum DB seq length: 0

maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database :

1: SPREMBL.23.\*  
2: sp\_archaea.\*  
3: sp\_bacteria.\*  
4: sp\_fungi.\*  
5: sp\_human.\*  
6: sp\_invertebrate.\*  
7: sp\_mammal.\*  
8: sp\_rhiz.\*  
9: sp\_organelle.\*  
10: sp\_phase.\*  
11: sp\_plant.\*  
12: sp\_rodent.\*  
13: sp\_virus.\*  
14: sp\_vertebrate.\*  
15: sp\_unclassified.\*  
16: sp\_virus.\*  
17: sp\_bacteriap.\*  
18: sp\_archaeap.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	653	100.0	653	4	Q9BHW1 homo sapien
2	396	60.6	649	4	Q9CA85
3	325	49.8	652	11	Q99PH1 mus musculus
4	231	35.4	648	11	Q8V135 mus musculus
5	122	18.7	629	11	Q8V135 mus musculus
6	19	2.9	640	4	Q9HCJ2
7	19	2.9	640	11	Q8C031 mus musculus
8	19	2.9	640	11	Q8BGN8 mus musculus
9	14	2.1	422	4	Q9NT99 homo sapien
10	9	1.4	347	13	Q9DE00 petromyzon
11	9	1.4	388	13	Q9DD29 petromyzon
12	9	1.4	582	5	Q46042 drosophila
13	9	1.4	595	5	Q9A077 drosophila
14	9	1.4	598	8	Q8LX55 cynocephalu
15	9	1.4	526	10	Q9ZSH1 brassica na
16	9	1.4	927	10	Q9ZSH2 brassica na

17	9	1.4	1103	5	Q9VY72	Q9VY72 drosophila
18	8	1.2	121	2	P71515	P71515 methylobact
19	8	1.2	122	16	O54166	O54166 streptomyce
20	8	1.2	124	17	Q9YDE6	Q9YDE6 aeropyrum p
21	8	1.2	130	10	Q9LX88	Q9LX88 arabidopsis
22	8	1.2	151	10	Q8L4D4	Q8L4D4 oryza sativ
23	8	1.2	203	4	Q13222	Q13222 homo sapien
24	8	1.2	205	10	Q9FER30	Q9FER30 lycopersico
25	8	1.2	207	4	Q8WXA6	Q8WXA6 homo sapien
26	8	1.2	255	5	Q9SSR4	Q9SSR4 drosophila
27	8	1.2	256	2	Q937F1	Q937F1 mycobacteri
28	8	1.2	288	5	Q8MRU4	Q8MRU4 drosophila
29	8	1.2	288	5	Q9WOP0	Q9WOP0 drosophila
30	8	1.2	314	10	Q8S1L3	Q8S1L3 oryza sativ
31	8	1.2	320	10	Q8SVV5	Q8SVV5 oryza sativ
32	8	1.2	335	16	Q8YBK2	Q8YBK2 bruceella me
33	8	1.2	339	2	Q8GRF2	Q8GRF2 borrelia du
34	8	1.2	339	11	Q8C812	Q8C812 mus musculus
35	8	1.2	368	16	Q8FWU6	Q8FWU6 bruceella su
36	8	1.2	377	11	Q89949	Q89949 rattus norv
37	8	1.2	378	11	Q99PM3	Q99PM3 mus musculus
38	8	1.2	431	5	Q9VFP2	Q9VFP2 drosophila
39	8	1.2	439	4	Q16365	Q16365 homo sapien
40	8	1.2	442	6	Q8M1N5	Q8M1N5 sus scrofa
41	8	1.2	442	11	Q8V187	Q8V187 mus musculus
42	8	1.2	444	5	Q9U2V9	Q9U2V9 caenorhabdi
43	8	1.2	447	10	Q9W023	Q9W023 arabidopsis
44	8	1.2	468	10	Q942G0	Q942G0 oryza sativ
45	8	1.2	547	13	Q91349	Q91349 xenopus lae
46	8	1.2	591	16	Q8RPS0	Q8RPS0 oceanobacil
47	8	1.2	601	10	Q9FK10	Q9FK10 arabidopsis
48	8	1.2	606	5	Q8WST6	Q8WST6 drosophila
49	8	1.2	606	5	Q9VLA2	Q9VLA2 drosophila
50	8	1.2	611	16	Q9WYD6	Q9WYD6 thermotoga
51	8	1.2	613	5	Q8N012	Q8N012 drosophila
52	8	1.2	650	10	Q8VVC0	Q8VVC0 arabidopsis
53	8	1.2	650	10	O50071	O50071 arabidopsis
54	8	1.2	670	10	Q8H0Z0	Q8H0Z0 arabidopsis
55	8	1.2	680	5	Q95TU3	Q95TU3 drosophila
56	8	1.2	742	5	Q9W186	Q9W186 drosophila
57	8	1.2	743	5	Q24037	Q24037 drosophila
58	8	1.2	827	10	Q8S5J7	Q8S5J7 oryza sativ
59	8	1.2	831	5	Q9NFL3	Q9NFL3 drosophila
60	8	1.2	831	5	Q9V8T0	Q9V8T0 drosophila
61	8	1.2	837	16	Q9PPY5	Q9PPY5 xylella fas
62	8	1.2	882	5	Q9V3J9	Q9V3J9 drosophila
63	8	1.2	890	5	Q45317	Q45317 caenorhabdi
64	8	1.2	909	5	Q19857	Q19857 caenorhabdi
65	8	1.2	921	10	Q9XHG0	Q9XHG0 arabidopsis
66	8	1.2	922	5	Q9SU05	Q9SU05 drosophila
67	8	1.2	926	10	Q39214	Q39214 arabidopsis
68	8	1.2	939	5	Q810R8	Q810R8 caenorhabdi
69	8	1.2	945	5	Q9NKT7	Q9NKT7 leishmania
70	8	1.2	1054	3	Q94097	Q94097 varrowia li
71	8	1.2	1055	2	P95632	P95632 rickettsia
72	8	1.2	1057	2	Q9FDP1	Q9FDP1 rickettsia
73	8	1.2	1058	2	P95661	P95661 rickettsia
74	8	1.2	1062	11	Q8BK33	Q8BK33 mus musculus
75	8	1.2	1224	5	Q9VXW2	Q9VXW2 drosophila
76	8	1.2	1263	5	Q8T0M2	Q8T0M2 drosophila
77	8	1.2	1462	5	Q9V5Q8	Q9V5Q8 drosophila
78	8	1.2	1847	5	Q9NKN5	Q9NKN5 leishmania
79	8	1.2	2087	5	Q8MXL2	Q8MXL2 leishmania
80	8	1.2	3414	12	Q9IG40	Q9IG40 langat viru
81	8	1.2	3414	12	Q9IG39	Q9IG39 langat viru
82	7	1.1	24	4	Q16476	Q16476 homo sapien
83	7	1.1	63	16	Q8XTM2	Q8XTM2 ralistonia s
84	7	1.1	66	16	Q9S2N5	Q9S2N5 streptomyce
85	7	1.1	67	5	Q96469	Q96469 plasmodium
86	7	1.1	67	8	Q8SJ13	Q8SJ13 urus arcto
87	7	1.1	67	16	Q8QCN5	Q8QCN5 staphylococ
88	7	1.1	71	12	Q9IIL1	Q9IIL1 white spot
89	7	1.1	72	2	Q9X6L9	Q9X6L9 klebsiella

7	1.1	80	5	O96468	Q8d4v47 streptococcus
7	1.1	81	16	Q8DV47	Q91b74 pseudomonas
7	1.1	88	16	Q91W84	Q8ckl1 versinia pe
7	1.1	89	16	O8CK1	Q8df23 myxocephal
7	1.1	92	13	Q3DP23	Q9nmn7 halobacteri
7	1.1	92	17	Q9HMW7	Q8ryxl1 oryza sativ
7	1.1	93	10	Q8RYX1	Q14886 homo sapien
7	1.1	94	4	Q14886	Q14892 homo sapien
7	1.1	98	4	Q14892	Q9yfe8 aeropyrum p
7	1.1	101	17	Q9YF8	Q8he71 oryza sativ
7	1.1	102	10	O8H671	Q8he71 oryza sativ
7	1.1	103	10	O8S8M2	Q8s8m2 arabidopsis
7	1.1	107	11	O8C572	Q8c572 mus musculu
7	1.1	108	17	O8TBD0	Q8cpd0 methanosarc
7	1.1	109	17	Q9YB24	Q9Yb24 aeropyrum p
7	1.1	112	10	O8S7E6	Q8s7e6 oryza sativ
7	1.1	112	10	O944K9	Q944k9 arabidopsis
7	1.1	118	17	Q9Y9X2	Q9y9x2 aeropyrum p
7	1.1	119	16	O8U723	Q8u723 agrobacteri
7	1.1	124	6	O77583	O77583 bos taurus
7	1.1	124	10	Q77583	Q40626 oryza sativ
7	1.1	124	10	Q40626	Q936a6 serratia ma
7	1.1	126	2	Q936A6	Q8tpc9 methanosarc
7	1.1	127	17	Q8TPC9	Q66804 hordeum vul
7	1.1	129	10	O66804	Q9uup9 phaffia rho
7	1.1	130	3	Q9UUP9	Q8t3p2 dictyosteli
7	1.1	130	5	Q8T3P2	O04338 arabidopsis
7	1.1	133	10	O04338	Q39194 arabidopsis
7	1.1	133	10	Q39194	Q41908 arabidopsis
7	1.1	133	10	Q41908	Q9a2k3 caulobacter
7	1.1	133	16	O9AJK3	Q8p694 xanthomonas
7	1.1	136	16	O8P6G4	Q98nx5 rhizobium 1
7	1.1	137	16	O98NX5	Q50814 mycobacteri
7	1.1	145	2	Q50814	Q8w1e2 arabidopsis
7	1.1	145	10	O8W1E2	Q9d5m1 mus musculu
7	1.1	145	11	Q9D5M1	Q8s5z3 oryza sativ
7	1.1	148	10	O8S5Z3	Q9k4k1 streptomyce
7	1.1	148	16	O9K4K1	Q8zd76 versinia pe
7	1.1	151	16	O8ZD76	Q8kc9 versinia en
7	1.1	153	2	O8KC9	Q9d8w7 mus musculu
7	1.1	154	11	Q9D8W7	Q8pb29 xanthomonas
7	1.1	154	16	O8PB29	Q9pc55 xanthomonas
7	1.1	155	16	O8PC55	Q8dc79 vibrio vuln
7	1.1	156	16	O8DC79	Q9hres halobacteri
7	1.1	156	17	Q9HRE9	Q9nu90 corynebacte
7	1.1	157	16	O8NU90	Q9fcc7 streptomyce
7	1.1	157	16	O9FCC7	Q9ckw1 macaca fasc
7	1.1	158	6	O9GKW1	Q8z3c2 salmonella
7	1.1	162	16	O8Z3C2	Q3r3c2 salmonella
7	1.1	162	16	O9L6M1	Q16m1 salmonella
7	1.1	164	4	Q14851	Q14851 homo sapien
7	1.1	169	16	O9K7B0	Q9k760 bacillus ha
7	1.1	172	10	O94H56	Q94h56 oryza sativ
7	1.1	172	16	O8ENW7	Q8enw7 oceanobacil
7	1.1	173	6	O8HYZ6	Q8hyz6 sus scrofa
7	1.1	173	10	O9FW83	Q9fw83 oryza sativ
7	1.1	173	11	Q9Z2F9	Q9z2f9 mus musculu
7	1.1	173	16	O8EZ01	Q8fz01 bruceella su
7	1.1	178	16	O9AXX0	Q9aax0 caulobacter
7	1.1	179	16	O8D9U1	Q8du1 vibrio vuln
7	1.1	182	3	O74708	O74708 emericella
7	1.1	182	3	Q8JIV2	Q8jiv2 emericella

## ALIGNMENTS

	RESULT 1	PRT; 653 AA.
D	D Q9HBW1	PRELIMINARY;
C	C Q9HBW1;	(TREMURE). 16, Created)
T	T 01-MAR-2001	(TREMURE). 18, Last sequence update)
I	I 01-OCT-2001	(TREMURE). 23, Last annotation update)
F	F 01-MAR-2003	(TREMURE). 23, Last annotation update)

2Y 541 AAMLIYFKLKRKHQRSTVTAARTVEIIQVDEDDIPAAATSAATAAPSGVSGEAVLPT 600  
 DB 541 AAMLIYFKLKRKHQRSTVTAARTVEIIQVDEDDIPAAATSAATAAPSGVSGEAVLPT 600  
 2Y 601 IHDHINVTYKPAHGAHWHTENSLGNSLHPVTVTIISBPYIIQTHTKDKVQETQI 653  
 DB 601 IHDHINVTYKPAHGAHWHTENSLGNSLHPVTVTIISBPYIIQTHTKDKVQETQI 653

## RESULT 2

Q96A85 PRELIMINARY; PRT; 649 AA.  
 AC Q96A85  
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE Hypothetical protein.  
 GN BAG.  
 OS Homo sapiens (Humar).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 OX NCBI\_TaxID=9606;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Wang J., Zhongshan Medical University, Guangzhou, China.  
 RL Thesis (2000).  
 DR EMBL; AJ297838; CAC82651.1; -.  
 DR InterPro; IPR007110; IG-like.  
 DR InterPro; IPR003598; IG\_c2.  
 DR InterPro; IPR003006; IG\_MHC.  
 DR InterPro; IPR001611; LRR.  
 DR InterPro; IPR000483; LRR\_Cterm.  
 DR InterPro; IPR000372; LRR\_Nterm.  
 DR InterPro; IPR003591; LRR\_Typ.  
 DR Pfam; PF00047; IG; 1.  
 DR Pfam; PF00560; LRR; 6.  
 DR Pfam; PF01463; LRRCT; 1.  
 DR Pfam; PF01462; LRRNT; 1.  
 DR SMART; SM00408; IGC2; 1.  
 DR SMART; SM00082; LRRCT; 1.  
 DR SMART; SM00013; LRRNT; 1.  
 DR SMART; SM00369; LRR\_TYP; 3.  
 DR PROSITE; PS50835; IG\_LIKE; 1.  
 DR PROSITE; PS50506; LRR\_TYPICAL; 1.  
 DR KW Hypothetical protein; Immunoglobulin domain; Signal.  
 FT SIGNAL 1 38 POTENTIAL.  
 SQ SEQUENCE 649 AA; 72313 MW; 9C11C5A8C7E536CF CRC64;

Query Match 60.6%; Score 396; DB 4; Length 649;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 396; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 258 ERNAPDGLASIVELNLAHNNLSLPHDLFTPLRYLVLELHHPNPKDCDILMLAWLRE 317  
 DB 254 ERNAPDGLASIVELNLAHNNLSLPHDLFTPLRYLVLELHHPNPKDCDILMLAWLRE 313  
 318 YIPNTSCCRCHAPMHRGRYIVVDQASFOCSAPFINDAPDLNISEGRMAELKCRTP 377  
 DB 314 YIPNTSCCRCHAPMHRGRYIVVDQASFOCSAPFINDAPDLNISEGRMAELKCRTP 373  
 378 PMSSVKLLPENGTVLSHSHPRISVINDGTINFSHVLLSDGTGVTCMVTVAGNSNASHA 437  
 DB 374 PMSSVKLLPENGTVLSHSHPRISVINDGTINFSHVLLSDGTGVTCMVTVAGNSNASHA 433  
 438 YLNVSTALNTSNYSPTTVVETTEISEDTTRKYPVPTSTGQPAYTSTTVLIOT 497  
 DB 434 YLNVSTALNTSNYSPTTVVETTEISEDTTRKYPVPTSTGQPAYTSTTVLIOT 493  
 498 TRVFKQAVPATDTDKQVTSLEVMKTKIIIGCFVAVTLLAAAMLIVFYKRRKHQR 557  
 DB 494 TRVFKQAVPATDTDKQVTSLEVMKTKIIIGCFVAVTLLAAAMLIVFYKRRKHQR 553  
 558 STVTAARTVEIIQVDEDDIPAAATSAATAAPSGVSGEAVLPTIHDHINVTYKPAHGAH 617

DB 554 STVTAARTVEIIQVDEDDIPAAATSAATAAPSGVSGEAVLPTIHDHINVTYKPAHGAH 613  
 QY 618 WTENSLGNSLHPVTVTIISBPYIIQTHTKDKVQETQI 653  
 DB 614 WTENSLGNSLHPVTVTIISBPYIIQTHTKDKVQETQI 649

## RESULT 3

Q99PH1 PRELIMINARY; PRT; 652 AA.  
 AC Q99PH1  
 DT 01-JUN-2001 (TrEMBLrel. 17, Created)  
 DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE LRRc4-like protein.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 OX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Wang J., Qian J., Dong L., Li X., Tan C., Li J., Zhang B., Zhang X.,  
 Bin L., Zhou J., Li G.;  
 RT Identification and Expression Analysis of LRRc4, a Novel Member of  
 Leucine-Rich Repeat (LRR) Superfamily.;  
 RL Shengwu Huaxue Yu Shengwu Wuli Jinzhan 29:0-0(2002).  
 DR EMBL; AF290542; AAG60620.2; -.  
 DR InterPro; IPR003599; IG.  
 DR InterPro; IPR007110; IG-like.  
 DR InterPro; IPR003598; IG\_c2.  
 DR InterPro; IPR001611; LRR.  
 DR InterPro; IPR000483; LRR\_Cterm.  
 DR InterPro; IPR000372; LRR\_Nterm.  
 DR InterPro; IPR003591; LRR\_Typ.  
 DR Pfam; PF00560; LRR; 8.  
 DR Pfam; PF01463; LRRCT; 1.  
 DR Pfam; PF01462; LRRNT; 1.  
 DR PRINTS; PRO0019; LEUKICHRPT.  
 DR SMART; SM00409; IG; 1.  
 DR SMART; SM00408; IGC2; 1.  
 DR SMART; SM00082; LRRCT; 1.  
 DR SMART; SM00013; LRRNT; 1.  
 DR PROSITE; PS50835; IG\_LIKE; 1.  
 DR PROSITE; PS50506; LRR\_TYPICAL; 2.  
 DR PROSITE; PS50506; LRR\_TYPICAL; 2.  
 SQ SEQUENCE 652 AA; 72619 MW; 9D2807A1AE30062 CRC64;

Query Match 49.8%; Score 325; DB 11; Length 652;  
 Best Local Similarity 100.0%; Pred. No. 3.4e-316;  
 Matches 325; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 22 VYLTAQVWILCAATAAASAGPQPCVCSNPFQSVCTRRGLSEVPQGISNTRYLN 81  
 DB 21 VYLTAQVWILCAATAAASAGPQPCVCSNPFQSVCTRRGLSEVPQGISNTRYLN 80  
 82 LKNNIQMIQADTFRLHLHLVQLGRNSRQIEVGFAPGLASLNTLELFDNLTVIPSG 141  
 DB 81 LKNNIQMIQADTFRLHLHLVQLGRNSRQIEVGFAPGLASLNTLELFDNLTVIPSG 140  
 142 APEYLSKLRELRLNRPITESIPSYAFNRVPSLAPRLDGLGELKLEYISEGAFGLFNLKYL 201  
 DB 141 APEYLSKLRELRLNRPITESIPSYAFNRVPSLAPRLDGLGELKLEYISEGAFGLFNLKYL 200  
 202 NLGMNTIKDMNLPVLCLLELENSGNHFFPIRPSFHGLSLKLLWVNSQVSLIERNA 261  
 DB 201 NLGMNTIKDMNLPVLCLLELENSGNHFFPIRPSFHGLSLKLLWVNSQVSLIERNA 260  
 262 FDGLASIVELNLAHNNLSLPHDLFTPLRYLVLELHHPNPKDCDILMLAWLREYIPT 321  
 DB 261 FDGLASIVELNLAHNNLSLPHDLFTPLRYLVLELHHPNPKDCDILMLAWLREYIPT 320  
 322 NSTCCGRCHAPMHRGRYIVVDQASFOCSAPFINDAPDLNISEGRMAELKCRTP 346

Db 321 NSTCCGCHAPMGRGYLVEVDQA 345

## RESULT 4

Q8V135 PRELIMINARY; PRT; 648 AA.  
AC Q8V135;  
DT 01-MAR-2002 (TREMblrel. 20, Created)  
DT 01-MAR-2002 (TREMblrel. 20, Last sequence update)  
DT 01-MAR-2003 (TREMblrel. 23, Last annotation update)  
DE Brain tumor-associated protein MBAG1.  
DS Mus musculus (Mouse).  
DC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
DC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
DX NCBI\_TaxID=10090;  
[1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=C57BL/6J;  
RA Wang J., Bin L., Li G.;  
RL "Brain-specific gene, downregulated in brain tumor.";  
RL Submitted (AUG-2000) to the EMBL/GenBank/DBJ databases.  
DR EMBL; AF300458; AAL67671.1;  
DR InterPro; IPR007110; IG-like.  
DR InterPro; IPR003598; IG\_c2.  
DR InterPro; IPR001611; LRR.  
DR InterPro; IPR000483; LRR\_Cterm.  
DR InterPro; IPR000372; LRR\_Nterm.  
DR InterPro; IPR003591; LRR\_Typ.  
DR Pfam; PF00560; LRR\_6.  
DR Pfam; PF01463; LRRCT; 1.  
DR Pfam; PF01462; LRRNT; 1.  
DR SMART; SM00408; IGC2; 1.  
DR SMART; SM00082; LRRCT; 1.  
DR SMART; SM00013; LRRNT; 1.  
DR SMART; SM00369; LRR\_Typ; 3.  
DR PROSITE; PS50835; IG LIKE; 1.  
DR PROSITE; PS50506; LRR\_TYPICAL; 1.  
QX SEQUENCE 648 AA; 72215 MW; E7E2E50FC8F4DDD CRC64;

Query Match 35.4%; Score 231; DB 11; Length 648;  
Best Local Similarity 100.0%; Pred. No. 4.5e-222;  
Matches 231; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Y 22 VLTQAQWILCAIAAASAGPNCPSVCSNQPSKVCTRGISEVPGQIPSNTRYLN 81  
b 21 VLTQAQWILCAIAAASAGPNCPSVCSNQPSKVCTRGISEVPGQIPSNTRYLN 80  
Y 82 LMENNIOIQAQDFRHLHLEVLQGNSTIQIEVGAFAFNGLASLNTLELFDNWLTVIPSG 141  
b 81 LMENNIOIQAQDFRHLHLEVLQGNSTIQIEVGAFAFNGLASLNTLELFDNWLTVIPSG 140  
Y 142 APEYLSKRLRLRNPIESIPSYAFNRVPSLMLDLGLKLEKLEYISEGAFGLFNKYL 201  
b 141 APEYLSKRLRLRNPIESIPSYAFNRVPSLMLDLGLKLEKLEYISEGAFGLFNKYL 200  
Y 202 NLGMCNKMPNLTPLVGLLEELWMSGNHPEIRPGSFHGLSLKKLWVNS 252  
b 201 NLGMCNKMPNLTPLVGLLEELWMSGNHPEIRPGSFHGLSLKKLWVNS 251

## RESULT 5

Q8BJ09 PRELIMINARY; PRT; 429 AA.  
D Q8BJ09;  
T 01-MAR-2003 (TREMblrel. 23, Created)  
T 01-MAR-2003 (TREMblrel. 23, Last sequence update)  
T 01-MAR-2003 (TREMblrel. 23, Last annotation update)  
E LfBG-like protein homolog.  
S Mus musculus (Mouse).  
DC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
DC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
DX NCBI\_TaxID=10090;

[1]  
RN SEQUENCE FROM N.A.  
RP STRAIN=C57BL/6J; TISSUB=Medulla oblongata;  
RX MEDLINE=22354683; PubMed=12466851;  
RA The FANTOM Consortium,  
RA the RIKEN Genome Exploration Research Group Phase I & II Team;  
RT "Analysis of the mouse transcriptome based on functional annotation of  
RT 60,770 full-length cDNAs.";  
RL Nature 420:563-573 (2002).  
DR EMBL; AK046781; BAC32864.1;  
SQ SEQUENCE 429 AA; 47536 MW; 58D8843555167347 CRC64;  
Query Match 18.7%; Score 122; DB 11; Length 429;  
Best Local Similarity 100.0%; Pred. No. 4.4e-113;  
Matches 122; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 225 MSGNHFPPIRPGSFHGLSLKKLWVNSQVSLIERNAFDGLASLVELNLAHNLSLPHD 284  
DB 1 MSGNHFPPIRPGSFHGLSLKKLWVNSQVSLIERNAFDGLASLVELNLAHNLSLPHD 60  
QY 285 LFTPLRYLVLELHHPNPNWCDLILWLAWLREYIPNPTCCGRCCHAPMGRGYLVEVD 344  
DB 61 LFTPLRYLVLELHHPNPNWCDLILWLAWLREYIPNPTCCGRCCHAPMGRGYLVEVD 120  
QY 345 QA 346  
DB 121 QA 122  
RESULT 6  
Q9HCJ2  
ID Q9HCJ2 PRELIMINARY; PRT; 640 AA.  
AC Q9HCJ2;  
DT 01-MAR-2001 (TREMblrel. 16, Created)  
DT 01-MAR-2001 (TREMblrel. 16, Last sequence update)  
DT 01-MAR-2003 (TREMblrel. 23, Last annotation update)  
DE Hypothetical protein KIAA1580 (Fragment).  
GN KIAA1580.  
OS Homo sapiens (Human).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
OX NCBI\_TaxID=9606;  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=20450683; PubMed=10997877;  
RA Nagase T., Kikuno R., Nakayama M., Hirose M., Ohara O.;  
RT "Prediction of the coding sequences of unidentified human genes.  
RT XVII. The complete sequences of 100 new cDNA clones from brain which  
RT code for large proteins in vitro.";  
RL DNA Res. 7:273-281 (2000).  
DR EMBL; ABO46800; BAB13406.1;  
DR InterPro; IPR007110; IG-like.  
DR InterPro; IPR003598; IG\_c2.  
DR InterPro; IPR003006; IG\_MHC.  
DR InterPro; IPR001611; LRR.  
DR InterPro; IPR000483; LRR\_Cterm.  
DR InterPro; IPR000372; LRR\_Nterm.  
DR Pfam; PF00047; IG; 1.  
DR Pfam; PF00560; LRR; 9.  
DR Pfam; PF01463; LRRCT; 1.  
DR Pfam; PF01462; LRRNT; 1.  
DR PRINTS; PRO0019; LEURICHERPT.  
DR SMART; SM00408; IGC2; 1.  
DR SMART; SM00082; LRRCT; 1.  
DR SMART; SM00013; LRRNT; 1.  
DR SMART; SM00369; LRR\_Typ; 4.  
DR PROSITE; PS50835; IG LIKE; 1.  
DR PROSITE; PS50506; LRR\_TYPICAL; 2.  
KN Hypothetical protein; Immunoglobulin domain.  
FT NON TER  
SQ SEQUENCE 640 AA; 71949 MW; 6058974872636838 CRC64;



Query Match 2.9%; Score 19; DB 4; Length 640;  
Best Local Similarity 100.0%; Pred. No. 8.6e-10;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 151 ELWLNNPIESIPSYAFNR 169  
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b 152 ELWLNNPIESIPSYAFNR 170  
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RESULT 7  
SC031 D Q8C031 PRELIMINARY; PRT; 640 AA.  
C O8C031;  
T 01-MAR-2003 (TrEMBLrel. 23, Created)  
T 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)  
T 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
E Weakly similar to brain tumor associated protein NAG14.  
S Mus musculus (Mouse).  
C Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
C Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
X NCBI\_TaxID=10090;  
N [1]  
P SEQUENCE FROM N.A.  
C STRAIN=C57BL/6J; TISSUE=Olfactory brain;  
X MEDLINE=22354683; PubMed=12466851;  
A The FANTOM Consortium.  
T the RIKEN Genome Exploration Research Group Phase I & II Team;  
T "Analysis of the mouse transcriptome based on functional annotation of  
T 60,770 full-length cDNAs."  
L Nature 420:563-573(2002).  
R EMBL; AK032467; BAC27984.1; -.  
Q SEQUENCE 640 AA; 71959 MW; 98105141825CB070 CRC64;

Query Match 2.9%; Score 19; DB 11; Length 640;  
Best Local Similarity 100.0%; Pred. No. 8.6e-10;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 151 ELWLNNPIESIPSYAFNR 169  
|||||  
b 152 ELWLNNPIESIPSYAFNR 170  
|||||

RESULT 8  
SCGH8 D Q8GH8 PRELIMINARY; PRT; 640 AA.  
C Q8GH8;  
T 01-MAR-2003 (TrEMBLrel. 23, Created)  
T 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)  
T 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
E Weakly similar to brain tumor associated protein NAG14.  
S Mus musculus (Mouse).  
C Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;  
C Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
X NCBI\_TaxID=10090;  
N [1]  
P SEQUENCE FROM N.A.  
C STRAIN=C57BL/6J; TISSUE=Diencephalon, and Head;  
X MEDLINE=22354683; PubMed=12466851;  
A The FANTOM Consortium.  
T the RIKEN Genome Exploration Research Group Phase I & II Team;  
T "Analysis of the mouse transcriptome based on functional annotation of  
T 60,770 full-length cDNAs."  
L Nature 420:563-573(2002).  
R EMBL; AK034276; BAC28656.1; -.  
R EMBL; AK048322; BAC3302.1; -.  
Q SEQUENCE 640 AA; 71991 MW; 9810515A995CAB6B CRC64;

Query Match 2.9%; Score 19; DB 11; Length 640;  
Best Local Similarity 100.0%; Pred. No. 8.6e-10;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 151 ELWLNNPIESIPSYAFNR 169  
|||||

Db 152 ELWLNNPIESIPSYAFNR 170  
RESULT 9  
Q9NT99 D Q9NT99 PRELIMINARY; PRT; 422 AA.  
AC Q9NT99;  
DT 01-OCT-2000 (TrEMBLrel. 15, Created)  
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)  
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
DE Hypothetical protein (fragment).  
GN DKFZP761A179.  
OS Homo sapiens (Human).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
OX NCBI\_TaxID=9606;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC TISSUE=Amalgam;  
RA Blum H., Bauersachs S., Mewes H.W., Gassenhuber J., Wiemann S.;  
RL Submitted (JAN-2000) to the EMBL/GenBank/DBJ databases.  
DR EMBL; AL137451; CAB70743.1; -.  
DR InterPro; IPR007110; IG-like.  
DR InterPro; IPR003598; IG C2.  
DR InterPro; IPR003006; IG MHC.  
DR InterPro; IPR001611; LRR.  
DR InterPro; IPR000483; LRR Cterm.  
DR InterPro; IPR003591; LRR typ.  
DR InterPro; IPR000217; Tubulin.  
DR Pfam; PF00047; IG; 1.  
DR Pfam; PF00560; LRR; 3.  
DR PRINTS; PR00019; LEURICHRPT.  
DR SMART; SM00408; IGC2; 1.  
DR SMART; SM00082; LRCT; 1.  
DR SMART; SM00369; LRR typ; 2.  
DR PROSITE; PS00835; IG-LIKE; 1.  
DR PROSITE; PS05056; LRR-TYPICAL; 1.  
DR PROSITE; PS00227; TUBULIN; 1.  
KW Hypothetical protein; Immunoglobulin domain.  
FT NON\_TER 1 1  
FT .NON\_TER 422 422  
SQ SEQUENCE 422 AA; 45110 MW; 164C6AF1A4BC440C CRC64;

Query Match 2.1%; Score 14; DB 4; Length 422;  
Best Local Similarity 100.0%; Pred. No. 6.1e-05;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 522 VMKTKIILIGCFVA 535  
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Db 356 VMKTKIILIGCFVA 369  
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RESULT 10  
Q9DE00 D Q9DE00 PRELIMINARY; PRT; 347 AA.  
AC Q9DE00;  
DT 01-MAR-2001 (TrEMBLrel. 16, Created)  
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)  
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
DE Biglycan-like protein 1 (Fragment).  
GN BGli.  
OS Petromyzon marinus (Sea lamprey).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Hyperoartia;  
OC Petromyzontiformes; Petromyzontidae; Petromyzon.  
OX NCBI\_TaxID=7757;  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=20496956; PubMed=11040287;  
RA Shintani S., Sato A., Toyosawa S., O'Huigin C., Klein J.;  
RT "Biglycan-like extracellular matrix genes of agnathans and teleosts."  
RL J. Mol. Evol. 51:363-373(2000).  
DR EMBL; AF247825; AAG40160.1; -.

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DR InterPro; IPR001511; LRR.
DR InterPro; IPR000372; LRR_Nterm.
DR InterPro; IPR003591; LRR_Typ.
DR Pfam; PF00560; LRR; 8.
DR Pfam; PF01462; LRRNT; 1.
DR SMART; SM00013; LRRNT; 1.
DR PROSITE; PS05056; LRR_TYPICAL; 1.
FT NON_TER 1
SQ SEQUENCE 347 AA; 38266 MW; 55CC296938CED391 CRC64;

Query Match 1.4%; Score 9; DB 13; Length 347;
Best Local Similarity 100.0%; Pred.No. 5.2; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

QY 114 IEVGAFNGFL 122
DB 177 IEVGAFNGFL 185

RESULT 11
Q9DDZ9 PRELIMINARY; PRT; 388 AA.
AC Q9DDZ9;
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE Glycylcan-like protein 1 (Fragment).
GN BGL1.
OS Petromyzon marinus (Sea lamprey).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Hyperoartia;
OC Petromyzontiformes; Petromyzontidae; Petromyzon.
OX NCBI_TaxID=7757;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=20496956; PubMed=11040287;
RA Shintani S., Sato A., Toyosawa S., O'huigin C., Klein J.;
RT "Glycylcan-like extracellular matrix genes of agnathans and teleosts.";
RL J. Mol. Evol. 51:363-373(2000).
DR EMBL; AF247826; AAG40161.1; -.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR000372; LRR_Nterm.
DR InterPro; IPR003591; LRR_Typ.
DR Pfam; PF00560; LRR; 8.
DR Pfam; PF01462; LRRNT; 1.
DR SMART; SM00013; LRRNT; 1.
DR PROSITE; PS05056; LRR_TYPICAL; 1.
FT NON_TER 1
SQ SEQUENCE 388 AA; 42542 MW; 2B07169E9BB86071B CRC64;

Query Match 1.4%; Score 9; DB 13; Length 388;
Best Local Similarity 100.0%; Pred.No. 5.7; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

QY 114 IEVGAFNGFL 122
DB 218 IEVGAFNGFL 226

RESULT 12
O46042 PRELIMINARY; PRT; 582 AA.
AC O46042;
DT 01-JUN-1998 (TrEMBLrel. 06, Created)
DT 01-JUN-1998 (TrEMBLrel. 06, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE EG-114E2.2 protein.
GN MNT OR EG-114E2.2 OR CG2856 OR CG13316.
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]

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RP SEQUENCE FROM N.A.
RA Murphy L., Harris D., Barrell B.;
RL Submitted (AUG-1997) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RA Benos P.;
RL Submitted (DEC-1997) to the EMBL/GenBank/DBJ databases.
CC -1- SIMILARITY: BELONGS TO THE BASIC HELIX-LOOP-HELIX (BHLH) FAMILY OF
CC TRANSCRIPTION FACTORS.
DR EMBL; Z98254; CAB10912.1; -.
DR FlyBase; FBgn0023215; Mnt.
DR InterPro; IPR001092; HLH_Basic.
DR InterPro; IPR002155; Thiolase.
DR Pfam; PF00010; HLH; 1.
DR SMART; SM00353; HLH; 1.
DR PROSITE; PS08888; HLH 2; 1.
DR PROSITE; PS00099; THIOLEASE 3; 1.
SQ SEQUENCE 582 AA; 59624 MW; 8185F6E70D63D51B CRC64;

Query Match 1.4%; Score 9; DB 5; Length 582;
Best Local Similarity 100.0%; Pred.No. 8.2; Mismatches 0; Indels 0; Gaps 0;
Matches 9; Conservative 0;

QY 578 ATSAATAA 586
DB 49 ATSAATAA 57

RESULT 13
Q9W4Q7 PRELIMINARY; PRT; 595 AA.
ID Q9W4Q7
AC Q9W4Q7;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE CG13316 protein.
GN MNT OR EG-114E2.2 OR CG2856 OR CG13316.
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Berkley;
RX MEDLINE=20196006; PubMed=10731132;
RA Adams M.D., Celisner S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Vandeil M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.-H.C., Blazek R.G., Champagne M., Pfeiffer B.D.,
RA Man K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Abril J.P., Agbayani A., An H.-J., Andrews-Pfannkuch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cavley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferrieria S., Fleischmann W.,
RA Foster C., Gabriellian A.S., Gary N.S., Gelbart W.M., Glasser K.,
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RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
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RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., Meleod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
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1A Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,  
 2A Shue B.C., Siden-Klamos I., Simpson M., Skupski M.P., Smith T.,  
 3A Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,  
 4A Svirskas R., Tector C., Turner E., Venter E., Wang A.H., Wang X.,  
 5A Wang Z.-Y., Wasserman D.A., Weinstein G.M., Weissenbach J.,  
 6A Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,  
 7A Ye J., Yeh R.-P., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zhang L.,  
 8A Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,  
 9A Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;  
 10A "The genome sequence of *Drosophila melanogaster*.";  
 11A Science 287:2185-2195(2000).  
 12A [2]  
 13A SEQUENCE FROM N.A.  
 14A Celnik S.E., Adams M.D., Krommiller B., Wan K.H., Holt R.A.,  
 15A Evans C.A., Gocayne J.D., Ananidis P.G., Brandon R.C., Rogers Y.,  
 16A Banon J., An H., Baldwin D., Benson J., Beeson K.Y., Busam D.A.,  
 17A Carlson J.W., Center A., Champe M., Davenport L.B., Dietz S.M.,  
 18A Dodson K., Dorsett V., Doup L.E., Doyle C., Dresnek D., Farfan D.,  
 19A Ferreira S., Frise E., Galle R.F., Garg N.S., George R.A.,  
 20A Gonzalez M., Hock J., Hoskins R.A., Hostin D., Howland T.J.,  
 21A Ibegwam C., Jalali M., Kuse D., Li P., Mattei B., Moshrefi A.,  
 22A McIntosh T.C., Moy M., Murphy B., Nelson C., Nelson K.A., Nunoo J.,  
 23A Pacleb J., Paragas V., Park S., Patel S., Pfeiffer B., Scheeler F.,  
 24A Phouanavong S., Pittman G.S., Puri V., Richards S., Scheeler F.,  
 25A Stapleton M., Strong R., Svirskas R., Tector C., Tyler D.,  
 26A Williams S.M., Zaveri J.S., Smith H.O., Venter J.C., Rubin G.M.;  
 27A "Sequencing of *Drosophila melanogaster* genome.";  
 28A Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.  
 29A [3]  
 30A SEQUENCE FROM N.A.  
 31A Misra S., Crosby M.A., Matthews B.B., Bayraktaroglu L., Campbell K.,  
 32A Hradecky P., Huang Y., Kaminker J.S., Prochuk S.E., Smith C.D.,  
 33A Tupy J.L., Bergman C., Berman B., Carlson J.W., Celnik S.E.,  
 34A Clamp M., Drysdale R., Emmert D., Frise E., de Grey A., Harris N.,  
 35A Krommiller B., Marshall B., Millburn G., Richter J., Russo S.,  
 36A Searle S.M., Smith E., Shu S., Smutniak F., Whitfield E.,  
 37A Ashburner M., Gelbart W.M., Rubin G.M., Mungall C.J., Lewis S.E.;  
 38A "Annotation of *Drosophila melanogaster* genome.";  
 39A Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.  
 40A [4]  
 41A SEQUENCE FROM N.A.  
 42A Adams M.D., Celnik S.E., Gibbs R.A., Rubin G.M., Venter C.J.;  
 43A Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.  
 44A [5]  
 45A SEQUENCE FROM N.A.  
 46A FlyBase;  
 47A Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.  
 48A -1- SIMILARITY: BELONGS TO THE BASIC HELIX-LOOP-HELIX (BHLH) FAMILY OF  
 49A TRANSCRIPTION FACTORS.  
 50A EMBL; AB003428; AAF45888.2; -;  
 51A FlyBase; FBgn023215; Mnt.  
 52A InterPro; IPR000104; Antifreeze 1.  
 53A InterPro; IPR001092; HLH basic.  
 54A InterPro; IPR002155; Thiolase.  
 55A Pfam; PF00010; HLH; 1  
 56A PRINTS; PR00308; ANTIFREEZE1.  
 57A SMART; SM00353; HLH; 1.  
 58A PROSITE; PS00888; HLH 2; 1.  
 59A PROSITE; PS00099; THIOLEASE 3; 1.  
 60A SEQUENCE 595 AA; 61079 MW; 2866EDP2632E9B6E CRC64;  
 61A Query Match 1.4%; Score 9; DB 5; Length 595;  
 62A Best Local Similarity 100.0%; Pred. No. 8.3;  
 63A Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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98LX55;  
 01-OCT-2002 (TRENBLREL. 22, Created)  
 01-OCT-2002 (TRENBLREL. 22, Last sequence update)  
 01-MAR-2003 (TRENBLREL. 23, Last annotation update)  
 NADH dehydrogenase subunit 5.  
 NADH5.  
 Cynocephalus variegatus.  
 Mitochondrion.  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Dermoptera; Cynocephalidae; Cynocephalus.  
 NCBI\_TaxID=9457;  
 [1]  
 SEQUENCE FROM N.A.  
 Arason U.;  
 Submitted (JAN-2002) to the EMBL/GenBank/DBJ databases.  
 [2]  
 SEQUENCE FROM N.A.  
 MEDLINE=22056029; PubMed=12034869;  
 Arason U., Adegoke J.A., Bodin K., Born E.W., Esa Y.B., Gullberg A.,  
 Nilsson M., Short R.V., Xu X., Janke A.;  
 "Mammalian mitogenomic relationships and the root of the eutherian  
 tree.";  
 Proc. Natl. Acad. Sci. U.S.A. 99:8151-8156(2002).  
 EMBL; AF488849; CAD21803.1; -;  
 InterPro; IPR003916; NADHub\_oxred5.  
 InterPro; IPR001750; Oxidored\_q1.  
 InterPro; IPR001516; Oxidored\_q1\_N.  
 Pfam; PF00361; oxidored\_q1; 1.  
 Pfam; PF00662; oxidored\_q1\_N; 1.  
 PRINTS; PR01434; NADHGNASE5.  
 NAD; Oxidoreductase; Ubiquinone; Mitochondrion.  
 SEQUENCE 598 AA; 65953 MW; 30D1664C041A28F3 CRC64;  
 Query Match 1.4%; Score 9; DB 8; Length 598;  
 Best Local Similarity 100.0%; Pred. No. 8.4;  
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 212 PNLPLVCL 220  
 DB 203 PNLPLVGL 211  
 RESULT 15  
 Q9ZSH1 PRELIMINARY;  
 ID Q9ZSH1 PRT; 926 AA.  
 AC Q9ZSH1  
 DT 01-MAY-1999 (TRENBLREL. 10, Created)  
 DT 01-MAY-1999 (TRENBLREL. 10, Last sequence update)  
 DT 01-MAR-2003 (TRENBLREL. 23, Last annotation update)  
 DE Disease resistance gene homolog 9N.  
 GN RPM1.  
 OS Brassica napus (Rape).  
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;  
 OC eurosids II; Brassicales; Brassicaceae; Brassica.  
 OX NCBI\_TaxID=3708;  
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 RP SEQUENCE FROM N.A.  
 RC STRAIN=N-0-9, and cv. CPB 87/5;  
 RC MEDLINE=99080102; PubMed=9861058;  
 RA Grant M.R., McDowell J.M., Sharpe A.G., de Torres Zabala M.,  
 Lydiate D.J., Dangl J.L.;  
 RT Independent deletions of a pathogen-resistance gene in Brassica and  
 Arabidopsis.";  
 Proc. Natl. Acad. Sci. U.S.A. 95:15943-15948(1998).  
 EMBL; AF105140; AAC99466.1; -;  
 InterPro; IPR000767; Disease\_resist.  
 InterPro; IPR001611; LRR.  
 InterPro; IPR002182; NB-ARC.  
 InterPro; IPR000719; Prot\_kinase.  
 Pfam; PF00560; LRR; 1.  
 Pfam; PF00931; NB-ARC; 1.  
 PRINTS; PR00364; DISEASERISIST.

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DR PROSITE; PS00107; PROTEIN KINASE ATP; 1.
SQ SEQUENCE 926 AA; 106285 MW; 566C6F23613A6822 CRC64;
Query Match 1.4%; Score 9; DB 10; Length 926;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 195 LFNLKYIYL 203
Db 603 LFNLKYIYL 611

RESULT 16
Q92SH2 PRELIMINARY; PRT; 927 AA.
AC Q92SH2;
DT 01-MAY-1999 (TrEMBLrel. 10, Created)
DT 01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE Disease resistance gene homolog 1A.
GN RPM1
OS Brassica napus (Rape).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
OC eurosids II; Brassicales; Brassicaceae; Brassica.
OX NCBI_TaxID=3708;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=N-O-1, and cv. Westar;
EX MEDLINE-99080102; PubMed=9861058;
RA Grant M.R., McDowell J.M., Sharpe A.G., de Torres Zabala M.,
Lydiate D.J., Dang J.L.;
RT "Independent deletions of a pathogen-resistance gene in Brassica and
Arabidopsis."
RL Proc. Natl. Acad. Sci. U.S.A. 95:15843-15848(1998).
DR EMBL; AF105139; AAC99464.1; -.
DR InterPro; IPR001611; LRR.
DR InterPro; IPR002182; NB-ARC.
DR InterPro; IPR000719; Prot_kinase.
DR Pfam; PF00560; LRR; 1.
DR Pfam; PF00931; NB-ARC; 1.
DR PROSITE; PS00107; PROTEIN KINASE ATP; 1.
SQ SEQUENCE 927 AA; 106123 MW; 2D7CB8EAC67A74BF CRC64;
Query Match 1.4%; Score 9; DB 10; Length 927;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 195 LFNLKYIYL 203
Db 604 LFNLKYIYL 612

RESULT 17
Q9VY72 PRELIMINARY; PRT; 1103 AA.
AC Q9VY72;
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE C32611 protein.
GN C32611 OR CG11075 OR CG11082.
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Berkely;
EX MEDLINE-20196006; PubMed-10731132;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
Amanatides P.G., Scher S.E., Li P.W., Hoskins R.A., Galle R.F.,

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Wan K.H., Doyle C., Baxter E.G., Heit G., Nelson C.R., Miklos G.L.G.,
RA April J.P., Aghayani A., An H.-J., Andrews-Pfannkuch C., Baldwin D.,
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Durlin K.J., Evangelista C.C., Ferraz C., Ferrier W.M., Fleischmann W.,
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Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
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Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
Spier E.C., Spradling A.C., Stapleton M., Strong R., Sun E.,
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Wang Z.-Y., Wassarman D.A., Weinstein G.M., Weissbach J.,
Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
Ye J., Yen R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RT "The genome sequence of Drosophila melanogaster."
RL Science 287:2185-2195(2000).
RN [2]
RP SEQUENCE FROM N.A.
RA Celniker S.E., Adams M.D., Krommiller B., Wan K.H., Holt R.A.,
Evans C.A., Gocayne J.D., Amanatides P.G., Brandon R.C., Rogers Y.,
Banzon J., An H., Baldwin D., Banzon J., Beeson K.Y., Busam D.A.,
Carlson J.W., Center A., Champe M., Davenport L.B., Dietz S.M.,
Dodson K., Dorsett V., Doup L.E., Doyle C., Dresnek D., Farfan D.,
Ferreira S., Frise E., Galle R.F., Garg N.S., George R.A.,
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McIntosh T.C., Moy M., Murphy B., Nelson C., Pfeiffer B., Nunoo J.,
Phoumenavong S., Pittman G.S., Puri V., Richards S., Scheeler F.,
Stapleton M., Strong R., Svirskas R., Tector C., Tyler D.,
Williams S.M., Zaveri J.S., Smith H.O., Venter J.C., Rubin G.M.;
RT "Sequencing of Drosophila melanogaster genome."
RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
RN [3]
RP SEQUENCE FROM N.A.
RA Misra S., Crosby M.A., Matthews B.B., Bayraktaroglu L., Campbell K.,
Hradecky P., Huang Y., Kaminck J.S., Prochuk S.E., Smith C.D.,
Tupy J.L., Bergman B., Carlson J.W., Celniker S.E.,
Clamp M., Drysdale R., Emmert D., Frise B., de Grey A., Harris N.,
Krommiller B., Marshall B., Millburn G., Richter J., Russo S.,
Searle S.M.J., Smith E., Shu S., Smutniak F., Whitfield E.,
Ashburner M., Gelbart W.M., Rubin G.M., Mungall C.J., Lewis S.E.;
RT "Annotation of Drosophila melanogaster genome."
RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
RN [4]
RP SEQUENCE FROM N.A.
RA Adams M.D., Celniker S.E., Gibbs R.A., Rubin G.M., Venter C.J.;
RT Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.
RN [5]
RP SEQUENCE FROM N.A.
RA FlyBase;
RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
CC -!- SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY).

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DR EMBL; AF003494; AAF48333.2; -.
DR FlyBase; FBgn0052611; CG32611.
DR InterPro; IPR000104; Antifreeze_1.
DR InterPro; IPR000210; B7B_POZ.
DR InterPro; IPR007087; Znf_C2H2.
DR Pfam; PF00651; B7B; 1.
DR Pfam; PF00096; Zf_C2H2; 4.
DR PRINTS; PR00308; ANTIFREEZE1.
DR PRINTS; PR00048; ZINC_FINGER.
DR SMART; SM00225; B7B; 1.
DR SMART; SM00355; Znf_C2H2; 4.
DR PROSITE; PS00097; B7B; 1.
DR PROSITE; PS00028; ZINC_FINGER_C2H2_1; 4.
DR PROSITE; PS00157; ZINC_FINGER_C2H2_2; 4.
DR Metal-binding; Nuclear protein; Zinc; Zinc-finger.
Q SEQUENCE 1103 AA; 113716 MW; E5866FD5683C9B0B CRC64;

Query Match 1.4%; Score 9; DB 5; Length 1103;
Best Local Similarity 100.0%; Pred.No. 14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 578 ATSAATAAA 586
b 142 ATSAATAAA 150

RESULT 18
D P71515 PRELIMINARY; PRT; 121 AA.
C P71515;
T 01-FEB-1997 (TREMBLrel. 02, Created)
T 01-FEB-1997 (TREMBLrel. 02, Last sequence update)
T 01-NOV-1998 (TREMBLrel. 08, Last annotation update)
E Orf3.
S Methylobacterium extorquens.
C Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;
C Methylobacteriaceae; Methylobacterium.
X NCBI_TaxID=408;
N [1]
P SEQUENCE FROM N.A.
C STRAIN=AMI;
X MEDLINE=97312011; PubMed=9168622;
A Chistoserdiva L., Lidstrom M.B.;
F "Molecular and mutational analysis of a DNA region separating two
F methylo-trophy gene clusters in Methylobacterium extorquens AM1.";
J Microbiology 143:1729-1736(1997).
Z EMBL; U72862; AAE50896.1; -.
Q SEQUENCE 121 AA; 13201 MW; D83B8C0B6AF5A47F CRC64;

Query Match 1.2%; Score 8; DB 2; Length 121;
Best Local Similarity 100.0%; Pred.No. 21;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

/ 537 TLLAAAML 544
) 12 TLLAAAML 19

RESULT 19
/ 054166 PRELIMINARY; PRT; 122 AA.
) 054166;
/ 01-JUN-1998 (TREMBLrel. 06, Created)
/ 01-JUN-1998 (TREMBLrel. 06, Last sequence update)
/ 01-MAR-2003 (TREMBLrel. 23, Last annotation update)
/ Hypothetical protein SC05937.
/ SC05937 OR SC7H1.07C.
/ Streptomyces coelicolor.
/ Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
/ Streptomycineae; Streptomyces.
/ NCBI_TaxID=1302;
/ [1]

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RP SEQUENCE FROM N.A.
RC STRAIN=A3(2) / M145;
RX MEDLINE=21996410; PubMed=13000953;
RA Bentley S.D., Chater K.P., Cerdeno-Tarraga A.-M., Challis G.L.,
RA Thomson N.R., James K.D., Harris D.B., Quail M.A., Kieser H.,
RA Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,
RA Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,
RA Huang C.-H., Kieser T., Larke L., Murphy L., Oliver K., O'Neill S.,
RA Rabinowitch E., Rajandream M.A., Rutherford K., Rutter S.,
RA Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K.,
RA Warren T., Wietzorrek A., Woodward J., Barrell B.G., Parkhill J.,
RA Hopwood D.A.;
RT "Complete genome sequence of the model actinomycete Streptomyces
RT coelicolor A3(2)";
RL Nature 417:141-147(2002).
DR EMBL; AL939125; CAAL6194.1; -.
RW Hypothetical protein; Complete proteome.
SQ SEQUENCE 122 AA; 12657 MW; A4FPB11BACB7CE44 CRC64;

Query Match 1.2%; Score 8; DB 16; Length 122;
Best Local Similarity 100.0%; Pred.No. 21;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 36 AAAASAGP 43
Db 114 AAAASAGP 121

RESULT 20
QYDE6 PRELIMINARY; PRT; 124 AA.
AC QYDE6;
DT 01-NOV-1999 (TREMBLrel. 12, Created)
DT 01-NOV-1999 (TREMBLrel. 12, Last sequence update)
DT 01-OCT-2002 (TREMBLrel. 22, Last annotation update)
DE Hypothetical protein APE0967.
GN APE0967.
OS Aeropyrum pernix.
OC Archaea; Crenarchaeota; Thermoprotei; Desulfurococcales;
OC Desulfurococceae; Aeropyrum.
OX NCBI_TaxID=56636;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=K1;
RX MEDLINE=99310339; PubMed=10382966;
RA Kawarabayashi Y., Hino Y., Horikawa H., Yamazaki S., Haikawa Y.,
RA Jin-Ho K., Takahashi M., Sekine M., Baba S.-I., Ankai A., Kosugi H.,
RA Hosoyama A., Fukui S., Nagai Y., Nishijima K., Nakazawa H.,
RA Takamiya M., Masuda S., Funahashi T., Tanaka T., Kudoh Y.,
RA Yamazaki J., Kishida N., Oguchi A., Aoki K.-I., Kubota K.,
RA Nakamura Y., Nomura N., Sako Y., Kikuchi H.;
RT "Complete genome sequence of an aerobic hyper-thermophilic
RT crenarchaeon, Aeropyrum pernix K1.";
RL DNA Res 6:83-101(1999).
DR EMBL; AF000060; BAA73951.1; -.
RW Hypothetical protein; Complete proteome.
SQ SEQUENCE 124 AA; 12205 MW; 786701A8018A6705 CRC64;

Query Match 1.2%; Score 8; DB 17; Length 124;
Best Local Similarity 100.0%; Pred.No. 21;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 581 AAATRAAPS 588
Db 4 AAATRAAPS 11

RESULT 21
Q9LX88 PRELIMINARY; PRT; 130 AA.
ID Q9LX88;
AC Q9LX88;
DT 01-OCT-2000 (TREMBLrel. 15, Created)
DT 01-OCT-2000 (TREMBLrel. 15, Last sequence update)

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01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
Cytoplasmic ribosomal protein S15a-like {Putative cytoplasmic
ribosomal protein S15a}.
F12M12.10 OR AT3G46040.
Arabidopsis thaliana (Mouse-ear cress).
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;
eurosids II; Brassicales; Brassicaceae; Arabidopsis.
NCBI_taxID=3702;
[1]
SEQUENCE FROM N.A.
Jordan N., Bangert S., Wiedelmann R., Voss H., Unseld M., Mewes H.W.,
Rudd S., Lemcke K., Mayer K.F.X., Quetier F., Salanoubat M.;
Submitted (MAY-2000) to the EMBL/GenBank/DBJ databases.
[2]
SEQUENCE FROM N.A.
Arabidopsis sequencing project;
Submitted (MAY-2000) to the EMBL/GenBank/DBJ databases.
[3]
SEQUENCE FROM N.A.
Yamada K., Liu S.X., Pham P.K., Banh J., Dale J.M., Goldsmith A.D.,
Jiang P.X., Lee J.M., Onodera C.S., Quach H.L., Tang C., Toriumi M.,
Yamamura Y., Yu G., Yu S., Bowser L., Carninci P., Chen H., Cheuk R.,
Hayashizaki Y., Ishida J., Jones T., Kamiya A., Karlin-Neumann G.,
Kawai J., Kim C., Koeseema E., Lam B., Lin J., Meyers M.C., Miranda M.,
Narusaka M., Nguyen M., Palm C.O., Sakurai T., Satou M., Seki M.,
Shinn P., Southwick A., Tracy S.E., Shinozaki K., Davis R.W.,
Ecker J.R., Theologis A.;
"Full Length cDNA of gene F12M12.10/AT3G46040 (GI:7798992).";
Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.
[4]
SEQUENCE FROM N.A.
Yamada K., Banh J., Chan M.M., Chang C.H., Chang E., Dale J.M.,
Deng J.M., Goldsmith A.D., Lee J.M., Onodera C.S., Quach H.L.,
Tang C., Toriumi M., Wu H.C., Yamamura Y., Yu G., Bowser L.,
Carninci P., Chen H., Cheuk R., Hayashizaki Y., Ishida J., Jones T.,
Kamiya A., Karlin-Neumann G., Kawai J., Kim C., Lam B., Lin J.,
Meyers M.C., Miranda M., Narusaka M., Nguyen M., Palm C.O.,
Sakurai T., Satou M., Seki M., Shinn P., Southwick A., Shinozaki K.,
Davis R.W., Ecker J.R., Theologis A.;
"Arabidopsis Open Reading Frame (ORF) Clones";
Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
EMBL; AL355775; CDS90931.1; -
EMBL; AY045837; AAK76511.1; -
EMBL; AY091373; AAM14312.1; -
HSP; P54041; 116U.
InterPro: IPR000630; Ribosomal_S8.
Pfam: PF00410; Ribosomal_S8; 1
ProDom: PD001098; Ribosomal_S8; 1.
PROSITE: PS00053; RIBOSOMAL_S8; 1.
Ribosomal protein.
SEQUENCE 130 AA; 14774 MW; 1F6ALC23524BP028 CRC64;
Query Match 1.2%; Score 8; DB 10; Length 130;
Best Local Similarity 100.0%; Pred. No. 22;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
NY 400 RISVLNDG 407
|||||
3 RISVLNDG 10
[5]
RESULT 22
Q814D4 PRELIMINARY; PRT; 151 AA.
D C Q814D4;
T T 01-OCT-2002 (TrEMBLrel. 22, Created)
T T 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
T T 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
E Hypothetical protein.
N OSUNBA0053C23.9 OR OSUNBB0038A07.21.
S Oryza sativa (japonica cultivar-group).
C Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

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OC	Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
OX	Ehrhartioideae; Oryzeae; Oryza.
OCX	NCSI_TaxID=33947;
OP	[1]
RN	SEQUENCE FROM N.A.
RP	STRAIN=cv. Nipponbare;
RC	Buell C.R., Yuan Q., Ouyang S., Liu J., Gansberger K., Kim M.M.,
RA	Overton II L.L.B., Bera J.J., Tsitrin T., Krol M.I., Jarrahi B.B.,
RA	Jin S.S., Koo H., Zismann V., Heiao J., Blunt S., Vanaken S.S.,
RA	Utterback T.T., Feidiblyum T.V., Yang Q.Q., Haas B.J., Suh B.B.,
RA	Peterson J.J., Quackenbush J., White O., Salzberg S.L., Fraser C.M.,
RT	"Oryza sativa chromosome 10 BAC OSUNBA0053C23 genomic sequence.";
RR	Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.
RL	[2]
RP	SEQUENCE FROM N.A.
RC	STRAIN=cv. Nipponbare;
RA	Buell C.R., Yuan Q., Ouyang S., Liu J., Gansberger K., Kim M.M.,
RA	Overton II L.L.B., Bera J.J., Tsitrin T., Krol M.I., Jarrahi B.B.,
RA	Jin S.S., Koo H., Zismann V., Heiao J., Blunt S., Vanaken S.S.,
RA	Utterback T.T., Feidiblyum T.V., Yang Q.Q., Haas B.J., Suh B.B.,
RA	Peterson J.J., Quackenbush J., White O., Salzberg S.L., Fraser C.M.,
RT	"Oryza sativa chromosome 10 BAC OSUNBB0038A07 genomic sequence.";
RR	Submitted (AUG-2002) to the EMBL/GenBank/DDBJ databases.
DR	EMBL; AC092389; AAW8616.1; -;
DR	EMBL; AC113948; AAM94527.1; -;
DR	Gnamens; Q8LEd4; -;
DR	InterPro; IPR000104; Antifreeze_1.
DR	PRINTS; PR00308; ANTIFREEZE1.
KW	Hypothetical protein.
QY	SEQUENCE 151 AA; 15015 MW; 8E2A692E8A922E19 CRC64;
Df	
Query Match	1.2%; Score 8; DB 10; Length 151;
Best Local Similarity	100.0%; Pred. No. 25;
Matches	8; Conservative 0; Mismatches 0; Indels 0; Gaps
QY	33 AATAAAAS 40
Df	
Df	64 AATAAAAS 71
RESULT 23	
Q13222	PRELIMINARY; PRT; 203 AA.
ID	Q13222
AC	Q13222;
DT	01-NOV-1996 (TrEMBLrel. 01, Created)
DT	01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
DE	01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DB	GAFA-4 protein (Fragment).
GN	GAFA-4
OS	Homo sapiens (Human).
OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OX	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OCX	NCSI_TaxID=9606;
OP	[1]
RN	SEQUENCE FROM N.A.
RP	Wood S., Yarekmo M.L., Schertzer M.;
RA	"Localization of human GATA4 to 8p23 maps chromosomal breakpoints
RT	disrupting synteny between human 8p and mouse 14 to the Clu-Gata4
RT	interval.";
RR	Submitted (JUN-1995) to the EMBL/GenBank/DDBJ databases.
RL	EMBL; U28635; AAA70335.1; -;
FT	NON TER 203 203
FT	SEQUENCE 203 AA; 20095 MW; 7C238D931655F208 CRC64;
Query Match	1.2%; Score 8; DB 4; Length 203;
Best Local Similarity	100.0%; Pred. No. 33;
Matches	8; Conservative 0; Mismatches 0; Indels 0; Gaps
QY	36 AAAASAGP 43
Df	
Df	175 AAAASAGP 182

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Query Match      1.28; Score 8; DB 4; Length 203;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 8; Conservative 0; Mismatches 0; Indels
/ 36 AAAASAGP 43
      | | | | |
      175 AAAASAGP 182

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RESULT 24
9FR30 PRELIMINARY; PRT; 205 AA.
C Q9FR30
D Q9FR30
T 01-MAR-2001 (TREMBlrel. 16, Created)
T 01-MAR-2001 (TREMBlrel. 16, Last sequence update)
T 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
E Ripening regulated protein DTRF10.
N DTRF10.
S Lycopersicon esculentum (Tomato).
C Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
C Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
C Asteridae; lamids; Solanales; Solanaceae; Solanum.
X NCBI_TaxID=4081;
N [1]
P SEQUENCE FROM N.A.
A Giovannoni J.J., Yen H., Shelton B., Miller S., Verbalov J.,
A Kannan P.;
T "Genetic mapping of ripening and ethylene related loci in tomato.";
L Theor. Appl. Genet. 98:1005-1013(1999).
R EMBL: AF204787; R349034.1; -.
R InterPro: IPR001326; EPI_BD.
R Pfam: PF00736; EPIBD.1.
R PROSITE: PS00824; EPIBD.1.1.
SQ SEQUENCE 205 AA; 22194 MW; B29428991892F0C1 CRC64;

Query Match 1.2%; Score 8; DB 10; Length 205;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2y 588 SGVSGEGA 595
2b 68 SGVSGEGA 75

RESULT 25
28WYX6 PRELIMINARY; PRT; 207 AA.
ID Q8WYX6
AC Q8WYX6
DT 01-MAR-2002 (TREMBlrel. 20, Created)
DT 01-MAR-2002 (TREMBlrel. 20, Last sequence update)
DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
DE Hypothetical protein.
GN P10443.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Zhang P.P., Zhou X.M., Jiang H.Q., Huang Y., Qin W.X., Zhao X.T.,
RA Wan D.F., Gu J.R.;
RT "Novel human cDNA clones with function of inhibiting cancer cell
RT growth.";
RL Submitted (NOV-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL: AF181820; AAL55827.1; -.
KW Hypothetical protein.
SQ SEQUENCE 207 AA; 19352 MW; 1D14439484133DA2 CRC64;

Query Match 1.2%; Score 8; DB 4; Length 207;
Best Local Similarity 100.0%; Pred. No. 33;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 36 AAAASAGP 43
Db 176 AAAASAGP 183

RESULT 26
Q9SSR4 PRELIMINARY; PRT; 255 AA.
ID Q9SSR4
AC Q9SSR4
DT 01-DEC-2001 (TREMBlrel. 19, Created)

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DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
DT 01-MAR-2002 (TREMBlrel. 20, Last annotation update)
DE GH05059D.
DE PPN OR CGI540 OR CGI8436.
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Berkeley;
RA Stapleton M., Brokstein P., Hong L., Agbayani A., Carlson J.,
RA Champe M., Chavez C., Dorsett V., Farfan D., Frise E., George R.,
RA Gonzalez M., Guarin H., Li P., Liao G., Miranda A., Mungall C.J.,
RA Nunoo J., Paclet J., Paragas V., Park S., Photanavong S., Wan K.,
RA Yu C., Lewis S.E., Rubin G.M., Celnik S.;
RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL: AY060635; AAL28183.1; -.
DR FlyBase: FBgn0001137; Ppn.
SQ SEQUENCE 255 AA; 27727 MW; 99BF45863CFB1A63 CRC64;

Query Match 1.2%; Score 8; DB 5; Length 255;
Best Local Similarity 100.0%; Pred. No. 40;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 579 TSAATAAA 586
Db 201 TSAATAAA 208

RESULT 27
Q937F1 PRELIMINARY; PRT; 256 AA.
ID Q937F1
AC Q937F1
DT 01-DEC-2001 (TREMBlrel. 19, Created)
DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
DT 01-DEC-2001 (TREMBlrel. 19, Last annotation update)
DE Putative transposase.
OS Mycobacterium fortuitum.
OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
OC Corynebacterineae; Mycobacteriaceae; Mycobacterium.
OX NCBI_TaxID=1766;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=2029240; PubMed=10832643;
RA Waskar M.N., Kumar D., Kumar A., Srivastava R.;
RT "Isolation of a novel insertion sequence from Mycobacterium fortuitum
RT using a trap vector based on inactivation of a lacZ reporter gene.";
RL Microbiology 146:1157-1162(2000).
RN [2]
RP SEQUENCE FROM N.A.
RA Srivastava R.;
RL Submitted (AUG-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL: AL315500; CAC51384.1; -.
SQ SEQUENCE 256 AA; 27647 MW; 3FD6D26475EEBABC CRC64;

Query Match 1.2%; Score 8; DB 2; Length 256;
Best Local Similarity 100.0%; Pred. No. 40;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 29 WILCAATA 36
Db 176 WILCAATA 183

RESULT 28
Q8MRU4 PRELIMINARY; PRT; 288 AA.
ID Q8MRU4
AC Q8MRU4
DT 01-OCT-2002 (TREMBlrel. 22, Created)
DT 01-OCT-2002 (TREMBlrel. 22, Last sequence update)
DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)

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DE SD24069p.
GN CG3386.
OS Drosophila melanogaster (fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RA Scapleton M., Brokstein P., Hong L., Agbayani A., Carlson J.,
RA Champe M., Chavez C., Dorsett V., Dresnek D., Farfan D., Frise E.,
RA George R., Gonzalez M., Guarin H., Kronmiller B., Li P., Liao G.,
RA Miranda A., Mungall C.J., Nunoo J., Pacleb J., Paragas V., Park S.,
RA Patel S., Phouanavong S., Wan X., Yu C., Lewis S.E., Rubin G.M.,
RA Celniker S.;
RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY119266; AAM51126.1; -.
DR FlyBase; FBgn0035152; CG3386.
DR InterPro; IPR006578; MADP.
DR SMART; SM00595; MADP; 1.
SQ SEQUENCE 288 AA; 33776 MW; 7FC9208DA19B76B2 CRC64;

Query Match 1.2%; Score 8; DB 5; Length 288;
Best Local Similarity 100.0%; Pred. No. 44;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 620 ENSLGNLSL 627
DB 200 ENSLGNLSL 207

RESULT 29
Q9W0P0 PRELIMINARY; PRT; 288 AA.
ID Q9W0P0
AC Q9W0P0
DT 01-MAY-2000 (TrEMBLrel. 13, Created)
DT 01-MAY-2000 (TrEMBLrel. 13, Last sequence update)
DE 01-MAY-2000 (TrEMBLrel. 13, Last annotation update)
DE CG3386 protein.
GN CG3386.
OS Drosophila melanogaster (fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC Ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN=BERKELEY;
RC MEDLINE=20196006; PubMed=10731132;
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Anantides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galie R.F.,
RA George R.A., Lewis S.B., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt R.G., Nelson C.R., Miklos G.L.G.,
RA Abrial J.F., Agbayani A., An H.-J., Andrews-Pfannkuch C., Baldwin D.,
RA Balow R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Borchan M.R., Bouck J., Brokstein P., Brothier P.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davoport L.B., Davies P.,
RA de Pablo S., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,
RA Poser C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Rulp D., Lei Z.,
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,

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RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
RA Shue B.C., Sidenkiamos I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.-Y., Wasserman D.A., Weinstein G.M., Weissbach J.,
RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RT "The genome sequence of Drosophila melanogaster.";
RL Science 287:2185-2195(2000).
DR EMBL; AE003469; AAF47403.1; -.
DR FlyBase; FBgn0035152; CG3386.
SQ SEQUENCE 288 AA; 33748 MW; 64C1B104B198210C CRC64;

Query Match 1.2%; Score 8; DB 5; Length 288;
Best Local Similarity 100.0%; Pred. No. 44;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 620 ENSLGNLSL 627
DB 200 ENSLGNLSL 207

RESULT 30
Q8S1L3 PRELIMINARY; PRT; 314 AA.
ID Q8S1L3
AC Q8S1L3
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE P0683B11.25 protein.
GN P0683B11.25.
OS Oryza sativa (japonica cultivar-group).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
OC Ehrhartoideae; Oryzaceae; Oryza.
OX NCBI_TaxID=39947;
RN [1]
RP SEQUENCE FROM N.A.
RA STRAIN=cv. Nipponbare;
RA Sasaki T., Matsumoto T., Yamamoto K.;
RT "Oryza sativa nipponbare(GA3) genomic DNA, chromosome 1, PAC
clone:P0683B11.";
RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AP003288; BAB89836.1; -.
DR Gramene; Q8S1L3; -.
SQ SEQUENCE 314 AA; 33402 MW; A351C0C092C3AAF1 CRC64;

Query Match 1.2%; Score 8; DB 10; Length 314;
Best Local Similarity 100.0%; Pred. No. 48;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 577 AATSAAAT 584
DB 24 AATSAAAT 31

RESULT 31
Q8RYV5 PRELIMINARY; PRT; 320 AA.
ID Q8RYV5
AC Q8RYV5
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
DE P0047F09.3 protein.
GN P0047F09.3.
OS Oryza sativa (japonica cultivar-group).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;

```



XC Ehrhartoideae; Oryzeae; Oryza.  
 XX NCB1\_TaxID=39947;  
 XN [1]  
 XP SEQUENCE FROM N.A.  
 XC STRAIN=CV. Nipponbare;  
 CA Sasaki T., Matsumoto T., Yamamoto K.;  
 TA "Oryza sativa nipponbare (GA3) genomic DNA, chromosome 1, PAC  
 T clone: P0047F09."  
 T Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.  
 L EMBL: AP004145; BAB86267.1; -  
 R Gramene; O8RYV5; -  
 Q SEQUENCE 320 AA; 34155 MW; 7564F3D0F44815A2 CRC64;

Query Match 1.2%; Score 8; DB 10; Length 320;  
 Best Local Similarity 100.0%; Pred.No. 49;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 578 ATSAATA 585  
 b 18 ATSAATA 25  
 |||||

RESULT 32  
 8YBK2  
 D Q8YBK2 PRELIMINARY; PRT; 335 AA.  
 C Q8YBK2;  
 T 01-MAR-2002 (TREMELrel. 20, Created)  
 T 01-MAR-2002 (TREMELrel. 20, Last sequence update)  
 T 01-MAR-2003 (TREMELrel. 23, Last annotation update)  
 E Endo-type 6-aminohexanoate OLIGOMER hydrolase.  
 N BMEI10898.  
 S Brucella melitensis.  
 C Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;  
 C Brucellaceae; Brucella.  
 X NCB1\_TaxID=29459;  
 [1]  
 P SEQUENCE FROM N.A.  
 STRAIN=16M / ATCC 23456 / Biotype 1;  
 MEDLINE=20020109; PubMed=1175688;  
 DelVecchio V.G., Kapral V., Redkar R.J., Patra G., Mijer C., Los T.,  
 Ivanova N., Anderson I., Bhattacharyya A., Lykidis A., Reznik G.,  
 Jablonski L., Larsen N., D'Souza M., Bernal A., Mazur M., Goltzman E.,  
 Selkov B., Elzer P.H., Hagius S., O'Callaghan D., Letesson J.-J.,  
 Haselkorn R., Kypides N., Overbeek R.,  
 "The genome sequence of the facultative intracellular pathogen  
 Brucella melitensis";  
 Proc. Natl. Acad. Sci. U.S.A. 99:443-448(2002).  
 EMBL: AE009724; AAL54140.1; -  
 InterPro: IPR005321; Peptidase T4.  
 Pfam: PF03576; Peptidase\_S58; 1.  
 Complete proteome.  
 SEQUENCE 335 AA; 34095 MW; 81B48877BB6860CD CRC64;

Query Match 1.2%; Score 8; DB 16; Length 335;  
 Best Local Similarity 100.0%; Pred.No. 51;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

582 AATAPSG 589  
 134 AATAPSG 141  
 |||||

RESULT 33  
 GRP2  
 Q8GRF2 PRELIMINARY; PRT; 339 AA.  
 Q8GRF2;  
 01-MAR-2003 (TREMELrel. 23, Created)  
 01-MAR-2003 (TREMELrel. 23, Last sequence update)  
 01-MAR-2003 (TREMELrel. 23, Last annotation update)  
 Vlp23 gene homologue.  
 WPEB.  
 Borrelia duttonii.  
 Plasmid 44-kb linear plasmid.

OC Bacteria; Spirochaetes; Spirochaetales; Spirochaetaceae; Borrelia.  
 OX NCB1\_TaxID=40834;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=LV;  
 RA Tabuchi N., Mitani H., Seino S., Fukunaga M.;  
 RT "The 44-kb linear plasmid in the relapsing fever agent Borrelia  
 RT duttonii serve as a preservation of vmp genes."  
 RL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.  
 DR EMBL: AB073701; BAC22662.1; -  
 KW Plasmid.  
 SQ SEQUENCE 339 AA; 35125 MW; 9CAB8427F8BB8F17 CRC64;

Query Match 1.2%; Score 8; DB 2; Length 339;  
 Best Local Similarity 100.0%; Pred.No. 51;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 34 AIAAASA 41  
 Db 200 AIAAASA 207  
 |||||

RESULT 34  
 Q8C812  
 ID Q8C812 PRELIMINARY; PRT; 339 AA.  
 AC Q8C812;  
 DT 01-MAR-2003 (TREMELrel. 23, Created)  
 DT 01-MAR-2003 (TREMELrel. 23, Last sequence update)  
 DT 01-MAR-2003 (TREMELrel. 23, Last annotation update)  
 DE General transcription factor Iia.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 CX NCB1\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 STRAIN=C57BL/6J; TISSUE=Cerebellum;  
 RX MEDLINE=22354683; PubMed=12466851;  
 RA The FANTOM Consortium,  
 RA the RIKEN Genome Exploration Research Group Phase I & II Team;  
 RT "Analysis of the mouse transcriptome based on functional annotation of  
 RT 60,770 full-length cDNAs."  
 RL Nature 420:563-573(2002).  
 DR EMBL: AK048711; BAC33430.1; -  
 SQ SEQUENCE 339 AA; 37252 MW; F7294010B5FD23AF CRC64;

Query Match 1.2%; Score 8; DB 11; Length 339;  
 Best Local Similarity 100.0%; Pred.No. 51;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 579 TSAATAA 586  
 Db 97 TSAATAA 104  
 |||||

RESULT 35  
 Q8FWU6 PRELIMINARY; PRT; 369 AA.  
 ID Q8FWU6;  
 AC Q8FWU6;  
 DT 01-MAR-2003 (TREMELrel. 23, Created)  
 DT 01-MAR-2003 (TREMELrel. 23, Last sequence update)  
 DT 01-MAR-2003 (TREMELrel. 23, Last annotation update)  
 DE Conserved hypothetical protein.  
 GN BRA0349.  
 OS Brucella suis.  
 OC Bacteria; Proteobacteria; Alphaproteobacteria; Rhizobiales;  
 OC Brucellaceae; Brucella.  
 OX NCB1\_TaxID=29461;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=1330 / Biovar 1;  
 RX MEDLINE=22247741; PubMed=12271122;  
 Paulsen I.T., Seshadri R., Nelson K.E., Eisen J.A., Heidelberg J.F.,

RT "TFIIIAalpha/beta-Like Factor Is Encoded by a Germ Cell-Specific Gene  
BT Which Expression Is Up-Regulated with Other General Transcription  
TT Factors in Spermatogenesis in the Mouse.",  
EL Biol.Reprod. 64:507-517(2001).  
FL EMBL: AF250834; ARS50431.1; --  
DR HSSP: P12773; 1YTF.  
DR MGD: MGI:1933277; Gtf2al.  
DR InterPro: IPR004855; TFIIA.  
DR Pfam: PF03153; TFIIA; 1.  
SO SEQUENCE 378 AA; 41484 MW; B49D75118857C5235 CRC64;

Query Match 1.2%; Score 8; DB 11; Length 378;  
Best Local Similarity 100.0%; Pred. No. 56;  
Matches 8; Conservative 0; Mismatches 0; Indels

Qy 579 TSAAATAA 586  
Db 136 TSAAATAA 143

RESULT 38  
Q9VFP2  
ID Q9VFP2  
PRELIMINARY:  
PRT: 431 AA.

OS *Drosophila melanogaster* (Fruit fly).  
OS *Eukaryota*; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
OC *Bukaryota*; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
OC Ephydroidea; Drosophilidae; Drosophila.  
OX NCBI\_TaxID=7227;  
[1]\_RN  
RP SEQUENCE FROM N.A.

RA Seaton K.N., Basu A.K., Extenetate S., Sayakadaga, S., Sanyal, S.,  
RA Seeson K.T., Benos P.V., Berman B.P., Shandari D., Bolshakov S.,  
RA Sorokova D., Borchan M.R., Boutler J., Brooksrein P., Brotlier P.,  
RA Burtis K.C., Busam D.A., Butler H., Cadieu S., Center A., Chandra I.,  
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,  
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,  
RA Dodson K., Doup L.E., Downes M., Duran-Rocha S., Dunkov B.C., Dunn P.,  
RA Dordun K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,  
RA Foslter C., Gabriellian A.B., Garg N.S., Gelbart W.M., Glasser K.,  
RA Glodok A., Gong P., Gorrell J.H., Gu Z., Guan P., Harris M.,  
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,  
RA Hossin D., Houston K.A., Howland T.J., Wei M.-H., Ibeswam C.,  
RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,  
RA Kimmel B.S., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,  
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,  
RA Liu X., Mattei B., McIntosh T.C., Mcleod M.P., McPherson D.,  
RA Merkulov G., Mileshina N.V., Mobarry C., Morris J., Mostreffi A.,

RA Grodek A., Gogz F., Gorrell J.H., Gu Z., Guan P., Harris M.,  
 RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,  
 RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,  
 RA Jafari M., Kallush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,  
 RA Kimmel B.R., Kodira C., Kraft C., Kravitz S., Kulp D., Lai Z.,  
 RA Lascko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,  
 RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,  
 RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,  
 RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,  
 RA Nelson D.R., Nelson K.A., Nixon K., Nuskern D.R., Pacle J.M.,  
 RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Resse M.G.,  
 RA Reinert K., Remington K., Saunders P.D.C., Scheeler F., Shen H.,  
 RA Shue B.C., Siden-Klanos I., Simpson M., Skupski M.P., Smith T.,  
 RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,  
 RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,  
 RA Wang Z.-Y., Wasserman D.A., Weinstein G.M., Weissenbach J.,  
 RA Williams S.M., Woodgate T., Worley K.C., Wu D., Yang S., Yao Q.A.,  
 RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,  
 RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,

RA Alimpei B.S., Koura C.D., Krat C., Arvizu S., Rupp D., Lai Z.,  
RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,  
RA Liu X., Watei S., McIntosh T.C., McLeod M.P., McPherson D.,  
RA Merkulov G., Milshina N.V., McBarry C., Morris J., Mostrefi A.,  
RA Mount S.M., Moy M., Murphy B., Murphy L., Murry D.R., Nelson D.L.,  
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacle J.M.,  
RA Palazzolo K., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,  
RA Reinert K., Remington K., Saunders R.D.C., Schesler F., Shen H.,  
RA Rhue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,  
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,  
RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,  
RA Wang Z.-Y., Wasserman D.A., Weinstein G.M., Weissenbach J.,  
RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,  
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,  
RA Zheng X.H., Zhong F.N., Zhong J.W., Zhou X., Zhu S., Zhu X., Smith H.O.,

PA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,  
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,

A Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;  
 T "The genome sequence of *Drosophila melanogaster*."  
 L Science 287:2185-2195(2000).  
 R EMBL; AF003702; AAF55008.1; -.  
 R FlyBase; FBgn0038193; CG12537.  
 Q SEQUENCE 431 AA; 44918 MW; DF3123E89F535C6 CRC64;

Query Match 1.2%; Score 8; DB 5; Length 431;  
 Best Local Similarity 100.0%; Pred. No. 63;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 577 AATSAAT 584  
 |||||  
 b 67 AATSAAT 74

RESULT 39  
 16365  
 D Q16365 PRELIMINARY; PRT; 439 AA.  
 C Q16365; Q00640;  
 T 01-NOV-1996 (T-EMBLrel. 01, Created)  
 T 01-NOV-1996 (T-EMBLrel. 01, Last sequence update)  
 T 01-MAR-2003 (T-EMBLrel. 23, Last annotation update)  
 E GATA-4 transcription factor.  
 S Homo sapiens (Human).  
 C Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 C Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
 X NCBI\_TaxID=9606;  
 [1]  
 N SEQUENCE FROM N.A.  
 X MEDLINE=95311982; PubMed=7791790;  
 A Yamagata T., Nishida J., Sakai R., Tanaka T., Honda H., Hirano N.,  
 A Maro H., Yazaki Y., Hirai H.;  
 T "Of the GATA-binding proteins, only GATA-4 selectively regulates the  
 T human interleukin-5 gene promoter in interleukin-5-producing cells  
 T which express multiple GATA-binding proteins.";  
 L Mol. Cell. Biol. 15:3830-3839(1995).  
 R EMBL; D78260; BA011334.1; -.  
 R HSP; P17679; 1GNF.  
 R InterPro; IPR000679; Znf\_GATA.  
 R Pfam; PF00320; GATA; 2.  
 R PRINTS; PR00619; GATAZNFINGER.  
 R SMART; SM00401; Znf\_GATA; 2.  
 R PROSITE; PS00344; GATA\_ZN\_FINGER\_1; 2.  
 R PROSITE; PS01114; GATA\_ZN\_FINGER\_2; 2.  
 Q SEQUENCE 439 AA; 45281 MW; 8E3316C0C04A8B67D CRC64;

Query Match 1.2%; Score 8; DB 4; Length 439;  
 Best Local Similarity 100.0%; Pred. No. 64;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 36 AAAASAGP 43  
 |||||  
 b 173 AAAASAGP 180

RESULT 40  
 3NIMS  
 D Q8MIM5 PRELIMINARY; PRT; 442 AA.  
 C Q8MIM5;  
 T 01-OCT-2002 (T-EMBLrel. 22, Created)  
 T 01-OCT-2002 (T-EMBLrel. 22, Last sequence update)  
 T 01-MAR-2003 (T-EMBLrel. 23, Last annotation update)  
 E Transcription factor GATA-4.  
 S Sus scrofa (Pig).  
 C Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 C Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.  
 X NCBI\_TaxID=9823;  
 [1]  
 N SEQUENCE FROM N.A.  
 X TISSUE=ovary;  
 A Gillio-Weina C., Hui Y.Y., LaVoie H.A.;  
 T "GATA-4 and GATA-6 transcription factors: expression,

RT immunohistochemical localization, and function in porcine ovaries.";  
 RL Submitted (MAY-2002) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AY115491; AAM63546.1; -.  
 DR InterPro; IPR000679; Znf\_GATA.  
 DR Pfam; PF00320; GATA; 2.  
 DR PRINTS; PR00619; GATAZNFINGER.  
 DR SMART; SM00401; Znf\_GATA; 2.  
 DR PROSITE; PS00344; GATA\_ZN\_FINGER\_1; 2.  
 DR PROSITE; PS01114; GATA\_ZN\_FINGER\_2; 2.  
 SQ SEQUENCE 442 AA; 44603 MW; 328AABD0B0E53051 CRC64;

Query Match 1.2%; Score 8; DB 6; Length 442;  
 Best Local Similarity 100.0%; Pred. No. 85;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 36 AAAASAGP 43  
 |||||  
 b 176 AAAASAGP 183

RESULT 41  
 Q8V187 PRELIMINARY; PRT; 442 AA.  
 AC Q8V187;  
 DT 01-MAR-2002 (T-EMBLrel. 20, Created)  
 DT 01-MAR-2002 (T-EMBLrel. 20, Last sequence update)  
 DT 01-MAR-2003 (T-EMBLrel. 23, Last annotation update)  
 DE Transcription factor GATA-4.  
 GN GATA4 OR GATA-4.  
 OS Mus musculus (Mouse).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.  
 OX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=Balb/C; TISSUE=Testis;  
 RA Yomogida K.;  
 RT "Mus musculus transcription factor GATA-4 complete cDNA.";  
 RL Submitted (DEC-2001) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AB075549; BAB78731.1; -.  
 DR MGD; MGI:95664; Gata4.  
 DR InterPro; IPR000679; Znf\_GATA.  
 DR Pfam; PF00320; GATA; 2.  
 DR PRINTS; PR00619; GATAZNFINGER.  
 DR SMART; SM00401; Znf\_GATA; 2.  
 DR PROSITE; PS00344; GATA\_ZN\_FINGER\_1; 2.  
 DR PROSITE; PS01114; GATA\_ZN\_FINGER\_2; 2.  
 SQ SEQUENCE 442 AA; 44709 MW; 8C22D23E2B34F37 CRC64;

Query Match 1.2%; Score 8; DB 11; Length 442;  
 Best Local Similarity 100.0%; Pred. No. 65;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 36 AAAASAGP 43  
 |||||  
 b 176 AAAASAGP 183

RESULT 42  
 Q9U2V9 PRELIMINARY; PRT; 444 AA.  
 AC Q9U2V9;  
 DT 01-MAY-2000 (T-EMBLrel. 13, Created)  
 DT 01-MAY-2000 (T-EMBLrel. 13, Last sequence update)  
 DT 01-MAR-2003 (T-EMBLrel. 23, Last annotation update)  
 DE Y116A8A.9 protein.  
 GN Y116A8A.9  
 OS Caenorhabditis elegans.  
 OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;  
 OC Rhabditidae; Peloderinae; Caenorhabditis.  
 OX NCBI\_TaxID=6239;  
 RN [1]  
 RP SEQUENCE FROM N.A.

RA McMurray A.A.;  
 RL Submitted (DEC-1998) to the EMBL/GenBank/DBJ databases.  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=99069613; PubMed=9851916;  
 RA none;  
 RT "Genome sequence of the nematode C.elegans: A platform for  
 investigating biology."  
 RL Science 282:2012-2018 (1998).  
 DR EMBL; AL117205; CAB55167.1; -.  
 DR HSP; P50579; 186A.  
 DR WormPep; Y116A8A.9; CE24146.  
 DR InterPro; IPR002468; MAP2.  
 DR InterPro; IPR001714; Methamino Phase.  
 DR InterPro; IPR000994; Peptidase\_M24.  
 DR Pfam; PF00557; Peptidase\_M24; 1.  
 DR PRINTS; PR00599; MAPEPTIDASE.  
 DR TIGRfams; TIGR00501; met\_pbase\_11; 1.  
 SQ SEQUENCE 444 AA; 49294 MW; 45BB986DE68DA67 CRC64;

Query Match 1.2%; Score 8; DB 5; Length 444;  
 Best Local Similarity 100.0%; Pred.No. 65;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 580 SAAATAAP 587  
 Db 58 SAAATAAP 65  
 |||||

RESULT 43  
 Q9M023  
 ID Q9M023 PRELIMINARY; PRT; 447 AA.  
 AC Q9M023  
 DT 01-OCT-2000 (TrEMBLrel. 15, Created)  
 DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE Hypothetical 50.4 kDa protein.  
 GN F7A730.  
 OS Arabidopsis thaliana (Mouse-ear cress).  
 OC Eukaryota; Viridiplantae; Streptophyta; Tracheophyta;  
 OC Spermatophyta; Magnoliophyta; eudicotyledons; Rosidae;  
 OC eurosids II; Brassicales; Brassicaceae; Arabidopsis.  
 OX NCBI\_TaxID=3702;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Bevan M., Pohl T., Weizenegger T., Bancroft I., Mewes H.W., Rudd S.,  
 RA Lemcke K., Mayer K.F.X.;  
 RA Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.  
 RN [2]  
 RP SEQUENCE FROM N.A.  
 RA EU Arabidopsis sequencing project;  
 RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AL161946; CAB82267.1; -.  
 DR InterPro; IPR006968; DUF647.  
 DR Pfam; PF04884; DUF647; 1.  
 KW Hypothetical protein.  
 SQ SEQUENCE 447 AA; 50387 MW; 18FBC2980B8B744 CRC64;

Query Match 1.2%; Score 8; DB 10; Length 447;  
 Best Local Similarity 100.0%; Pred.No. 65;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 579 TSAATAA 586  
 Db 107 TSAATAA 114  
 |||||

RESULT 44  
 Q942G0  
 ID Q942G0 PRELIMINARY; PRT; 468 AA.  
 AC Q942G0  
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)  
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)

DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)  
 DE P0480C01.6 protein.  
 GN P0480C01.6  
 OS Oryza sativa (Rice).  
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;  
 OC Ehrhartoideae; Oryzaceae; Oryza.  
 OX NCBI\_TaxID=4530;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=cv. Nipponbare;  
 RA Sasaki T., Matsumoto T., Yamamoto K.;  
 RT "Oryza sativa nipponbare (GA3) genomic DNA, chromosome 1, PAC  
 clone: P0480C01.6";  
 RL Submitted (MAR-2001) to the EMBL/GenBank/DBJ databases.  
 DR EMBL; AP003453; BAB68046.1; -.  
 DR Gramene; Q942G0; -.  
 SQ SEQUENCE 468 AA; 48466 MW; 47AF87C3827B52F4 CRC64;

Query Match 1.2%; Score 8; DB 10; Length 468;  
 Best Local Similarity 100.0%; Pred.No. 68;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 577 AATSAAT 584  
 Db 249 AATSAAT 256  
 |||||

RESULT 45  
 Q91349  
 ID Q91349 PRELIMINARY; PRT; 547 AA.  
 AC Q91349  
 DT 01-NOV-1996 (TrEMBLrel. 01, Created)  
 DT 01-NOV-1996 (TrEMBLrel. 01, Last sequence update)  
 DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)  
 DE Nuclear pore complex glycoprotein p52.  
 OS Xenopus laevis (African clawed frog).  
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipiloidea; Pipidae;  
 OC Xetopodinae; Xenopus.  
 OX NCBI\_TaxID=8355;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=92007945; PubMed=1915419;  
 RA Cordes V., Waizenegger I., Krohne G.;  
 RT "Nuclear pore complex glycoprotein p52 of Xenopus laevis and mouse:  
 RT DNA cloning and identification of its glycosylated region."  
 RL Eur. J. Cell Biol. 55:31-47 (1991).  
 DR EMBL; S59344; AAB19954.1; -.  
 SQ SEQUENCE 547 AA; 55934 MW; BC703F1F7AEFA320 CRC64;

Query Match 1.2%; Score 8; DB 13; Length 547;  
 Best Local Similarity 100.0%; Pred.No. 78;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 582 AATAAPSG 589  
 Db 34 AATAAPSG 41  
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RESULT 46  
 Q8EPS0  
 ID Q8EPS0 PRELIMINARY; PRT; 591 AA.  
 AC Q8EPS0  
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE Aspartyl-tRNA synthetase (EC 6.1.1.12).  
 GN ASPS OR 0B2019  
 OS Oceanobacillus iheyensis.  
 OC Bacteria; Firmicutes; Bacillales; Oceanobacillus.  
 OX NCBI\_TaxID=182710;  
 RN [1]

3P SEQUENCE FROM N.A.  
 3C STRAIN=HTE831 / DSM 14371 / JCM 11309;  
 3X MEDLINE=22220767; PubMed=12235376;  
 3A Takami H., Takaki Y., Uchiyama I.;  
 3T "Genome sequence of *Oceanobacillus iheyensis* isolated from the Iheya  
 3T Ridge and its unexpected adaptive capabilities to extreme  
 3T environments.";  
 3L Nucleic Acids Res. 30:3927-3935 (2002).  
 3R EMBL; AP004599; BAC13975.1; -;  
 3Q SEQUENCE 591 AA; 66933 MW; DPAEF504198CCF0B CRC64;  
 Query Match 1.2%; Score 8; DB 16; Length 591;  
 Best Local Similarity 100.0%; Pred. No. 83;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 3Y 584 TAAPSGVS 591  
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 3b 566 TAAPSGVS 573

RESULT 47  
 39FK10 PRELIMINARY; PRT; 601 AA.  
 AC Q9FK10;  
 DT 01-MAR-2001 (TrEMBLrel. 16, Created)  
 DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)  
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)  
 DE Receptor protein kinase-like protein.  
 OS Arabidopsis thaliana (Mouse-ear cress).  
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;  
 OC Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots; Rosidae;  
 OC eurosids II; Brassicales; Brassicaceae; Arabidopsia.  
 OX NCBI\_TaxID=3702;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=Columbia;  
 RX MEDLINE=96403884; PubMed=9734815;  
 RA Kotani H., Nakamura Y., Sato S., Asamizu E., Kaneko T., Miyajima N.,  
 RA Tabata S.;  
 RT "Structural analysis of Arabidopsis thaliana chromosome 5. VI.  
 RT Sequence features of the regions of 1,367,185 bp covered by 19  
 RT physically assigned P1 and PAC clones.";  
 RI DNA Res. 5:203-216 (1998).  
 DR EMBL; AB013388; BAB09794.1; -;  
 DR InterPro; IPR001611; LRR.  
 DR InterPro; IPR007090; LRR\_plant.  
 DR InterPro; IPR000719; Prot\_kinase.  
 DR Pfam; PF00560; LRR; 5.  
 DR Pfam; PF00069; pkinase; 1.  
 DR PRINTS; PR00019; LEURICRPT.  
 DR ProDom; PD000001; Prot\_kinase; 1.  
 DR PROSITE; PS05002; LRR\_PS; 1.  
 DR PROSITE; PS05001; PROTEIN\_KINASE\_DOM; 1.  
 DR ATP-binding; Kinase; Transferase.  
 KW ATP-binding; Kinase; Transferase.  
 SQ SEQUENCE 601 AA; 66862 MW; 4709B340F97DC4DE CRC64;

Query Match 1.2%; Score 8; DB 10; Length 601;  
 Best Local Similarity 100.0%; Pred. No. 84;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 3Y 271 LNLAHNLL 278  
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 3b 189 LNLAHNLL 196

RESULT 48  
 Q9KST6 PRELIMINARY; PRT; 606 AA.  
 AC Q9KST6;  
 DT 01-MAR-2002 (TrEMBLrel. 20, Created)  
 DT 01-MAR-2002 (TrEMBLrel. 20, Last sequence update)  
 DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)

DE Transcription factor glial cells missing 2.  
 GN Q9KST6 OR CG3858  
 OS Drosophila melanogaster (Fruit fly).  
 OC Eukaryota; Metazoa; Arthropoda; Insecta; Pterygota;  
 OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
 OC Ephydroidea; Drosophilidae; Drosophila.  
 OX NCBI\_TaxID=7227;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RA Hosoya T., Iwasaki Y., Osato M., Higashi-Takizawa C., Akiyama-Oda Y.,  
 RA Ikenaka K., Hiroi Y., Hotta Y.;  
 RT "Binary cell-fate decisions in Drosophila neurogenesis and  
 RT hematopoiesis regulated by Gcm-motif transcription factors.";  
 RL Submitted (FEB-2001) to the EMBL/GenBank/DBJ databases.  
 RL EMBL; AB056467; BAB83120.1; -;  
 DR FlyBase; FBgn019809; Gcm2.  
 DR InterPro; IPR003902; GCM\_motif.  
 DR Pfam; PF03615; GCM; 1.  
 SQ SEQUENCE 606 AA; 65751 MW; C80E2CB6E903D947 CRC64;

Query Match 1.2%; Score 8; DB 5; Length 606;  
 Best Local Similarity 100.0%; Pred. No. 85;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 3Y 581 AAATAAPS 588  
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 3b 357 AAATAAPS 364

RESULT 49  
 Q9VLA2 PRELIMINARY; PRT; 606 AA.  
 ID Q9VLA2;  
 AC Q9VLA2; Q9NC02;  
 DT 01-WAY-2000 (TrEMBLrel. 13, Created)  
 DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)  
 DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)  
 DE CG3858 protein (Glide2).  
 GN Q9VLA2 OR CG3858.  
 OS Drosophila melanogaster (Fruit fly).  
 OC Eukaryota; Metazoa; Arthropoda; Insecta; Pterygota;  
 OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;  
 OC Ephydroidea; Drosophilidae; Drosophila.  
 OX NCBI\_TaxID=7227;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RC STRAIN=Berkley;  
 RX MEDLINE=20196006; PubMed=10731132;  
 RA Adams M.D., Celnik S.E., Holt R.A., Evans C.A., Gocayne J.D.,  
 RA Amanatides P.G., Scher S.E., Li P.W., Hoskins R.A., Galie R.F.,  
 RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,  
 RA Sutton G.G., Wortman J.R., Vandal M.D., Zhang Q., Chen L.X.,  
 RA Brandon R.C., Rogers Y.-H.C., Blazer V.G., Champs E., Pfeiffer B.D.,  
 RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,  
 RA Abril J.F., Agbayani A., An H.-J., Andrews-Pfannkuch C., Baldwin D.,  
 RA Ballwe R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,  
 RA Beeson K.Y., Benos P.V., Bernan B.P., Bhandari D., Bolshakov S.,  
 RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,  
 RA Burtis K.C., Busan D.A., Butler H., Cadieu E., Center A., Chandra I.,  
 RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,  
 RA de Pablo B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,  
 RA Dodson X., Doup L.E., Downes N., Dugan-Rocha S., Dunkov B.C., Dunn P.,  
 RA Durbin K.J., Evangelista C.C., Ferraz C., Ferreira S., Fleischmann W.,  
 RA Fosler C., Gabriellian A.E., Garg N.S., Gelbart W.M., Glasser K.,  
 RA Glodek A., Gong P., Gorrell J.H., Gu Z., Guan P., Harris M.,  
 RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,  
 RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,  
 RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,  
 RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,  
 RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,  
 RA Liu X., Mattel B., McIntosh T.C., McLeod M.P., McPherson D.,  
 RA Merkulov G., Mishina N.V., Mobarry C., Morris J., Moshrefi A.,  
 RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,  
 RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,

RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,  
RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,  
RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,  
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,  
RA Svirskaes R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,  
RA Wang Z.-Y., Wassarman D.A., Weinstock G.M., Weissbach J.,  
RA Williams S.M., Woodgate T., Worley K.C., Wu D., Yang S., Yao Q.A.,  
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,  
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,  
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;  
RT "The genome sequence of *Drosophila melanogaster*.";  
RL Science 287:2185-2195(2000).  
RN [2]  
RN SEQUENCE FROM N.A.  
RP Celniker S.E., Adams M.D., Kronmiller B., Wan K.H., Holt R.A.,  
RA Evans C.A., Gocayne J.D., Amanatides P.G., Brandon R.C., Rogers Y.,  
RA Banson J., An H., Baldwin D., Banton J., Beeson K.Y., Busam D.A.,  
RA Carlson J.W., Center A., Champe M., Davenport L.B., Dietz S.M.,  
RA Dodson K., Dorsett V., Doup L.E., Doyle C., Dresnek D., Farfan D.,  
RA Ferriera S., Frise E., Galle R.P., Garg N.S., George R.A.,  
RA Gonzalez M., Houck J., Hoskins R.A., Hostin D., Howland T.J.,  
RA Ibegwam C., Jalali M., Kruse D., Li P., Mattei B., Moshrefi A.,  
RA McIntosh T.C., Moy M., Murphy B., Nelson C., Nelson K.A., Nunoo J.,  
RA Pacileb J., Paragas V., Park S., Patel S., Pfeiffer B.,  
RA Phouanavong S., Pittman G.S., Puri V., Richards S., Scheeler F.,  
RA Stapleton M., Strong R., Svirskaes R., Tector C., Tyler D.,  
RA Williams S.M., Zaveri J.S., Smith H.O., Venter J.C., Rubin G.M.;  
RT "Sequencing of *Drosophila melanogaster* genome.";  
RT Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.  
RN [3]  
RN SEQUENCE FROM N.A.  
RP Mistra S., Crosby M.A., Matthews B.B., Bayraktaroglu L., Campbell K.,  
RA Hradecky P., Huang Y., Kaminker J.S., Prochnik S.E., Smith C.D.,  
RA Tupy J.L., Bergman C., Kammerer M., Carlson J.W., Celniker S.E.,  
RA Clamp M., Drysdale R., Emmert D., Frise E., de Grey A., Harris N.,  
RA Kronmiller B., Marshall B., Millburn J., Richter J., Russo S.,  
RA Searle S.M.J., Smith E., Shu S., Smutniak P., Whitfield E.,  
RA Ashburner M., Gelbart W.M., Rubin G.M., Mungall C.J., Lewis S.E.;  
RT "Annotation of *Drosophila melanogaster* genome.";  
RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.  
RN [4]  
RN SEQUENCE FROM N.A.  
RP Adams M.D., Celniker S.E., Gibbs R.A., Rubin G.M., Venter C.J.;  
RL Submitted (MAR-2000) to the EMBL/GenBank/DBJ databases.  
RN [5]  
RN SEQUENCE FROM N.A.  
RP FlyBase;  
RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.  
RN [6]  
RN SEQUENCE FROM N.A.  
RP Kammerer M., Giangrande A.;  
RT "glide2, a fly homolog of the glide/gcm gene.";  
RL Submitted (SEP-1999) to the EMBL/GenBank/DBJ databases.  
DR EMBL: AE003625; AAF52793.2; -;  
DR EMBL: AF184664; AAF74349.1; -;  
DR FlyBase; FBN0019809; gcm2.  
DR InterPro; IPR003902; GCM\_motif.  
DR Pfam; PF03615; GCM; 1.  
SQ SEQUENCE 606 AA; 65673 MW; C5DF4B3C4AD88478 CRC64;

Query Match 1.2%; Score 8; DB 5; Length 606;  
Best Local Similarity 100.0%; Pred.No.85;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 581 AAATAAPS 588  
DB 357 AAATAAPS 364  
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RESULT 50  
29WYD6 PRELIMINARY; PRT; 611 AA.  
AC Q9WYD6;

DT 01-NOV-1999 (TREMBLrel. 12, Created)  
DT 01-NOV-1999 (TREMBLrel. 12, Last sequence update)  
DT 01-JUN-2001 (TREMBLrel. 17, Last annotation update)  
DE Oligopeptide ABC transporter, periplasmic oligopeptide-binding  
DE protein, putative.  
GN TM0300.  
OS Thermotoga maritima.  
OC Bacteria; Thermotogae; Thermotogales; Thermotogaceae; Thermotoga.  
OX NCBI\_TaxID=2336;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC STRAIN=KS88 / DSM 3109;  
RX MEDLINE=99287316; PubMed=10360571;  
RA Nelson K.E., Clayton R.A., Gill S.R., Gwinn M.L., Dodson R.J.,  
RA Haft D.H., Hickey E.K., Peterson J.D., Nelson W.C., Ketchum K.A.,  
RA McDonald L., Utterback T.R., Malek J.A., Linher K.D., Garrett M.M.,  
RA Stewart A.M., Cotton M.D., Pratt M.S., Phillips C.A., Richardson D.,  
RA Heidelberg J., Sutton G.G., Fleischmann R.D., Eisen J.A., White O.,  
RA Salzberg S.L., Smith H.O., Venter J.C., Fraser C.M.;  
RT "Evidence for lateral gene transfer between Archaea and Bacteria from  
RT genome sequence of *Thermotoga maritima*.";  
RL Nature 399:323-329(1999).  
DR EMBL; AE001712; AAD35388.1; -;  
DR TIGR; TM0300; -;  
DR InterPro; IPR000914; SBP\_bac\_5.  
DR Pfam; PF00496; SBP\_bac\_5; 2.  
KW Complete proteome.  
SQ SEQUENCE 611 AA; 70823 MW; 0FDE18A2D07FA76F CRC64;

Query Match 1.2%; Score 8; DB 16; Length 611;  
Best Local Similarity 100.0%; Pred.No.86;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 383 KWLLPNGT 390  
DB 422 KWLLPNGT 429  
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Search completed: February 5, 2004, 16:06:11  
Job time : 46 secs



101 7 1.1 711 2 US-08-465-473B-7  
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103 7 1.1 833 4 US-09-404-879A-389  
104 7 1.1 847 3 US-09-252-981A-19346  
105 7 1.1 855 3 US-07-956-483-15  
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112 7 1.1 1143 5 PCT-US95-04589-108  
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132 7 1.1 3072 3 US-09-413-814-80  
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138 6 0.9 10 2 US-07-814-421-21  
139 6 0.9 10 4 US-08-197-484-74  
140 6 0.9 10 5 PCT-US95-02121-74  
141 6 0.9 11 2 US-07-814-230-11  
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144 6 0.9 12 1 US-08-433-854-45  
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146 6 0.9 12 1 US-08-174-745A-45  
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150 6 0.9 12 2 US-08-433-885-43

## ALIGNMENTS

RESULT 1  
US-09-996-243-229  
; Sequence 229, Application US/09996243  
; Patent No. 6478825  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gottlieb, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.

; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas P.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730P1C13  
; CURRENT APPLICATION NUMBER: US/09/996,243  
; CURRENT FILING DATE: 2001-11-14  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/065186  
; PRIOR FILING DATE: 1997-11-12  
; PRIOR APPLICATION NUMBER: 60/065311  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: 60/066770  
; PRIOR FILING DATE: 1997-11-24  
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; PRIOR FILING DATE: 1998-02-25  
; PRIOR APPLICATION NUMBER: 60/078910  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/083322  
; PRIOR FILING DATE: 1998-04-28  
; PRIOR APPLICATION NUMBER: 60/084600  
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; PRIOR APPLICATION NUMBER: 60/088738



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 PRIOR FILING DATE: 1998-06-17  
 PRIOR APPLICATION NUMBER: 60/089801  
 PRIOR FILING DATE: 1998-06-18  
 PRIOR APPLICATION NUMBER: 60/089907  
 PRIOR FILING DATE: 1998-06-18  
 PRIOR APPLICATION NUMBER: 60/089908  
 PRIOR FILING DATE: 1998-06-18  
 PRIOR APPLICATION NUMBER: 60/089947  
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 PRIOR FILING DATE: 1998-06-22  
 PRIOR APPLICATION NUMBER: 60/090349  
 PRIOR FILING DATE: 1998-06-23  
 PRIOR APPLICATION NUMBER: 60/090355  
 PRIOR FILING DATE: 1998-06-23  
 PRIOR APPLICATION NUMBER: 60/090429  
 PRIOR FILING DATE: 1998-06-24  
 PRIOR APPLICATION NUMBER: 60/090431  
 PRIOR FILING DATE: 1998-06-24  
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 PRIOR FILING DATE: 1998-06-24  
 PRIOR APPLICATION NUMBER: 60/090445  
 PRIOR FILING DATE: 1998-06-24  
 PRIOR APPLICATION NUMBER: 60/090472  
 PRIOR FILING DATE: 1998-06-24  
 PRIOR APPLICATION NUMBER: 60/090535  
 PRIOR FILING DATE: 1998-06-24  
 PRIOR APPLICATION NUMBER: 60/090540  
 PRIOR FILING DATE: 1998-06-24

PRIOR APPLICATION NUMBER: 60/090542  
 PRIOR FILING DATE: 1998-06-24  
 PRIOR APPLICATION NUMBER: 60/090557  
 PRIOR FILING DATE: 1998-06-24  
 PRIOR APPLICATION NUMBER: 60/090676  
 PRIOR FILING DATE: 1998-06-25  
 PRIOR APPLICATION NUMBER: 60/090678  
 PRIOR FILING DATE: 1998-06-25  
 PRIOR APPLICATION NUMBER: 60/090690  
 PRIOR FILING DATE: 1998-06-25  
 PRIOR APPLICATION NUMBER: 60/090694  
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 PRIOR APPLICATION NUMBER: 60/090696  
 PRIOR FILING DATE: 1998-06-25  
 PRIOR APPLICATION NUMBER: 60/090862  
 PRIOR FILING DATE: 1998-06-26  
 PRIOR APPLICATION NUMBER: 60/090863  
 PRIOR FILING DATE: 1998-06-26  
 PRIOR APPLICATION NUMBER: 60/091360  
 PRIOR FILING DATE: 1998-07-01  
 PRIOR APPLICATION NUMBER: 60/091478  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091544  
 PRIOR FILING DATE: 1998-07-01  
 PRIOR APPLICATION NUMBER: 60/091519  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091626  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091633  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 4; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLMQVTVHHTNNAILLPFVYLTAQVWILCAIAAASAGPQNCPSVCSQNFQSKVV 60  
 DB 1 MKLLMQVTVHHTNNAILLPFVYLTAQVWILCAIAAASAGPQNCPSVCSQNFQSKVV 60  
 QY 61 CTRGGLSEVPQGISNTRYLNLMENNIIQADTFRLHLLHLEVLQLGKNSIRQIEVGAFN 120  
 DB 61 CTRGGLSEVPQGISNTRYLNLMENNIIQADTFRLHLLHLEVLQLGKNSIRQIEVGAFN 120  
 QY 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLRLNRPISIPSYAFNRVPSLMLDLGE 180  
 DB 121 GLASLNTLELFDNMLTVIPSGAFYLSKRLRLNRPISIPSYAFNRVPSLMLDLGE 180  
 QY 181 LKXLEYISEGAPGLENLKYNLGNCKNPKMNPITVLVGLLEEMSGNHPPETRPGSFHG 240  
 DB 181 LKXLEYISEGAPGLENLKYNLGNCKNPKMNPITVLVGLLEEMSGNHPPETRPGSFHG 240  
 QY 241 LSSLLKLVWMSQVSLIERNAPDGLASIVELNLAHNNLSIPHDLFTPLRYLVELHLLHN 300  
 DB 241 LSSLLKLVWMSQVSLIERNAPDGLASIVELNLAHNNLSIPHDLFTPLRYLVELHLLHN 300  
 QY 301 PANCDILMLAWMLREYIPTNSTCCGRCHAPMEMRGYILVEVDQASFQCSAPFIMDAPR 360  
 DB 301 PANCDILMLAWMLREYIPTNSTCCGRCHAPMEMRGYILVEVDQASFQCSAPFIMDAPR 360  
 QY 361 DLNISEGEMAEKCKRTPPMSSVKWLLPNTVLSHSHPRISVLNDGTILNPSHVLLSDTG 420  
 DB 361 DLNISEGEMAEKCKRTPPMSSVKWLLPNTVLSHSHPRISVLNDGTILNPSHVLLSDTG 420  
 QY 421 VYTCWTVNAGNSAYLNVSTAEALNTSNYSFFTIVTETTSIPEDTTTRKYPVPTTS 480

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Db 421 VYTCWTVNAGNSNASAYLWSTAEIENSYFFTTVTETTESPEDTKKYPVPTTS 480
QY 481 TGYOPAYTTSTVLIQTTRVPKQAVPAATDITDKWQSLDEVMKTKIILIGCFVAVTLLA 540
Db 481 TGYOPAYTTSTVLIQTTRVPKQAVPAATDITDKWQSLDEVMKTKIILIGCFVAVTLLA 540
QY 541 AAMLIVFYKLRKHQRSTVTAAATVEIIQVDEIPAAATSAATAAPSGVSGEAVVLP 600
Db 541 AAMLIVFYKLRKHQRSTVTAAATVEIIQVDEIPAAATSAATAAPSGVSGEAVVLP 600
QY 601 IHDHINNTYKPAHGAHRTENSLGNSLHPTVTIISBPVLIQTHTKQKQVSTOI 653
Db 601 IHDHINNTYKPAHGAHRTENSLGNSLHPTVTIISBPVLIQTHTKQKQVSTOI 653

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RESULT 2
US-09-482-273-174
; Sequence 174, Application US/09482273
; Patent No. 6534631
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 71 Human Secreted Proteins
; FILE REFERENCE: P2030P1
; CURRENT APPLICATION NUMBER: US/09/482,273
; CURRENT FILING DATE: 2000-01-13
; EARLIER APPLICATION NUMBER: PCT/US99/15849
; EARLIER FILING DATE: 1999-07-14
; EARLIER APPLICATION NUMBER: 60/092,921
; EARLIER FILING DATE: 1998-07-15
; EARLIER APPLICATION NUMBER: 60/092,922
; EARLIER FILING DATE: 1998-07-15
; EARLIER APPLICATION NUMBER: 60/092,956
; EARLIER FILING DATE: 1998-07-15
; NUMBER OF SEQ ID NOS: 267
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 174
; LENGTH: 224
; TYPE: PRT
; ORGANISM: Homo sapiens
; NAME/KEY: SITE
; FEATURE:
; LOCATION: (76)
; OTHER INFORMATION: xaa equals any of the naturally occurring L-amino acids
US-09-482-273-174

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Query Match 4.9%; Score 32; DB 4; Length 224;  
 Best Local Similarity 100.0%; Pred. No. 1.1e-22;  
 Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 142 AFEYLSKRLRLNNPIESIPSAFNRVPSL 173
Db 153 AFEYLSKRLRLNNPIESIPSAFNRVPSL 184

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RESULT 3
US-09-482-273-105
; Sequence 105, Application US/09482273
; Patent No. 6534631
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 71 Human Secreted Proteins
; FILE REFERENCE: P2030P1
; CURRENT APPLICATION NUMBER: US/09/482,273
; CURRENT FILING DATE: 2000-01-13
; EARLIER APPLICATION NUMBER: PCT/US99/15849
; EARLIER FILING DATE: 1999-07-14
; EARLIER APPLICATION NUMBER: 60/092,921
; EARLIER FILING DATE: 1998-07-15
; EARLIER APPLICATION NUMBER: 60/092,922
; EARLIER FILING DATE: 1998-07-15
; EARLIER APPLICATION NUMBER: 60/092,956
; EARLIER FILING DATE: 1998-07-15
; NUMBER OF SEQ ID NOS: 267

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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 105
; LENGTH: 302
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-482-273-105

Query Match 4.9%; Score 32; DB 4; Length 302;
Best Local Similarity 100.0%; Pred. No. 1.4e-22;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 AFEYLSKRLRLNNPIESIPSAFNRVPSL 173
Db 153 AFEYLSKRLRLNNPIESIPSAFNRVPSL 184

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RESULT 4
US-09-996-243-501
; Sequence 501, Application US/09996243
; Patent No. 6478825
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerbet, Hanspeter
; APPLICANT: Gerritsen, Mary S.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoli, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C13
; CURRENT APPLICATION NUMBER: US/09/996,243
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
; PRIOR APPLICATION NUMBER: 60/075945
; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
; PRIOR FILING DATE: 1998-03-20
; PRIOR APPLICATION NUMBER: 60/083322
; PRIOR FILING DATE: 1998-04-28
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/087106
; PRIOR FILING DATE: 1998-05-28
; PRIOR APPLICATION NUMBER: 60/087607
; PRIOR FILING DATE: 1998-06-02
; PRIOR APPLICATION NUMBER: 60/087609

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1	PRIOR APPLICATION NUMBER: 60/089908	
2	PRIOR FILING DATE: 1998-06-18	
3	PRIOR APPLICATION NUMBER: 60/089947	
4	PRIOR FILING DATE: 1998-06-19	
5	PRIOR APPLICATION NUMBER: 60/089948	
6	PRIOR FILING DATE: 1998-06-19	
7	PRIOR APPLICATION NUMBER: 60/089952	
8	PRIOR FILING DATE: 1998-06-19	
9	PRIOR APPLICATION NUMBER: 60/090246	
10	PRIOR FILING DATE: 1998-06-22	
11	PRIOR APPLICATION NUMBER: 60/090252	
12	PRIOR FILING DATE: 1998-06-22	
13	PRIOR APPLICATION NUMBER: 60/090254	
14	PRIOR FILING DATE: 1998-06-22	
15	PRIOR APPLICATION NUMBER: 60/090349	
16	PRIOR FILING DATE: 1998-06-23	
17	PRIOR APPLICATION NUMBER: 60/090355	
18	PRIOR FILING DATE: 1998-06-23	
19	PRIOR APPLICATION NUMBER: 60/090429	
20	PRIOR FILING DATE: 1998-06-24	
21	PRIOR APPLICATION NUMBER: 60/090431	
22	PRIOR FILING DATE: 1998-06-24	
23	PRIOR APPLICATION NUMBER: 60/090435	
24	PRIOR FILING DATE: 1998-06-24	
25	PRIOR APPLICATION NUMBER: 60/090444	
26	PRIOR FILING DATE: 1998-06-24	
27	PRIOR APPLICATION NUMBER: 60/090445	
28	PRIOR FILING DATE: 1998-06-24	
29	PRIOR APPLICATION NUMBER: 60/090472	
30	PRIOR FILING DATE: 1998-06-24	
31	PRIOR APPLICATION NUMBER: 60/090535	
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33	PRIOR APPLICATION NUMBER: 60/090540	
34	PRIOR FILING DATE: 1998-06-24	
35	PRIOR APPLICATION NUMBER: 60/090542	
36	PRIOR FILING DATE: 1998-06-24	
37	PRIOR APPLICATION NUMBER: 60/090557	
38	PRIOR FILING DATE: 1998-06-24	
39	PRIOR APPLICATION NUMBER: 60/090676	
40	PRIOR FILING DATE: 1998-06-25	
41	PRIOR APPLICATION NUMBER: 60/090678	
42	PRIOR FILING DATE: 1998-06-25	
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44	PRIOR FILING DATE: 1998-06-25	
45	PRIOR APPLICATION NUMBER: 60/090694	
46	PRIOR FILING DATE: 1998-06-25	
47	PRIOR APPLICATION NUMBER: 60/090695	
48	PRIOR FILING DATE: 1998-06-25	
49	PRIOR APPLICATION NUMBER: 60/090696	
50	PRIOR FILING DATE: 1998-06-25	
51	PRIOR APPLICATION NUMBER: 60/090862	
52	PRIOR FILING DATE: 1998-06-26	
53	PRIOR APPLICATION NUMBER: 60/090863	
54	PRIOR FILING DATE: 1998-06-26	
55	PRIOR APPLICATION NUMBER: 60/091360	
56	PRIOR FILING DATE: 1998-07-01	
57	PRIOR APPLICATION NUMBER: 60/091478	
58	PRIOR FILING DATE: 1998-07-02	
59	PRIOR APPLICATION NUMBER: 60/091544	
60	PRIOR FILING DATE: 1998-07-01	
61	PRIOR APPLICATION NUMBER: 60/091519	
62	PRIOR FILING DATE: 1998-07-02	
63	PRIOR APPLICATION NUMBER: 60/091626	
64	PRIOR FILING DATE: 1998-07-02	
65	PRIOR APPLICATION NUMBER: 60/091633	
66	PRIOR FILING DATE: 1998-07-02	
67	PRIOR APPLICATION NUMBER: 60/091978	
68	PRIOR FILING DATE: 1998-07-07	
69	PRIOR APPLICATION NUMBER: 60/091982	
70	PRIOR FILING DATE: 1998-07-07	
71	PRIOR APPLICATION NUMBER: 60/092182	
72	PRIOR FILING DATE: 1998-07-09	

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Query Match      2.9%; Score 19; DB 4; Length 640;
Best Local Similarity 100.0%; Pred. No. 9.2e-10;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 151 ELWLNNPIESIPSYAFNR 169
Db 152 ELWLNNPIESIPSYAFNR 170

RESULT 5
US-09-228-986-79
; Sequence 79, Application US/09228986
; Patent No. 6359198
; GENERAL INFORMATION:
; APPLICANT: Strabala, Timothy
; APPLICANT: Nieuwenhuizen, Niels
; TITLE OF INVENTION: Compositions Isolated from Plant Cells
; FILE REFERENCE: 11000/1020
; CURRENT APPLICATION NUMBER: US/09/228,986
; CURRENT FILING DATE: 1999-01-12
; NUMBER OF SEQ ID NOS: 130
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 79
; LENGTH: 711
; TYPE: PRT
; ORGANISM: Pinus radiata
US-09-228-986-79

Query Match      1.4%; Score 9; DB 4; Length 711;
Best Local Similarity 100.0%; Pred. No. 4.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 271 LNLAHNLS 279
Db 259 LNLAHNLS 267

RESULT 6
US-08-425-069-37
; Sequence 37, Application US/08425069
; Patent No. 5728810
; GENERAL INFORMATION:
; APPLICANT: Lewis, Randolph V.
; APPLICANT: Xu, Ming
; APPLICANT: Hinman, Michael B.
; TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK
; TITLE OF INVENTION: PROTEIN, A REPLICABLE VECTOR AND A TRANSFORMED CELL
; TITLE OF INVENTION: CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF
; NUMBER OF SEQUENCES: 69
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Birch, Stewart, Kolasch & Birch
; STREET: 301 No. 5728810th Washington Street
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22046
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/425,069
; FILING DATE: 19-APR-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1447-106P
; TELEPHONE: (703) 205-8000
; TELEFAX: (703) 205-8050
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TELEX:
; INFORMATION FOR SEQ ID NO: 37:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; STRANDEDNESS: not relevant
; TOPOLOGY: not relevant
; MOLECULE TYPE: peptide
; HYPOTHETICAL: NO
; FRAGMENT TYPE: internal
; ORIGINAL SOURCE:
; ORGANISM: nephila clavipes
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 1-36
; OTHER INFORMATION: /label= silk2_repeat
US-08-425-069-37

Query Match      1.2%; Score 8; DB 1; Length 36;
Best Local Similarity 100.0%; Pred. No. 2.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 36 AAAASAGP 43
Db 26 AAAASAGP 33

RESULT 7
US-08-209-747-48
; Sequence 48, Application US/08209747
; Patent No. 5733771
; GENERAL INFORMATION:
; APPLICANT: Lewis, Randolph V.
; APPLICANT: Colgin, Mark
; TITLE OF INVENTION: cDNAs Encoding Minor Ampullate Spider
; TITLE OF INVENTION: Silk Proteins
; NUMBER OF SEQUENCES: 56
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Birch, Stewart, Kolasch & Birch
; STREET: P.O. Box 747
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: USA
; ZIP: 22040-3487
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/209,747
; FILING DATE: 14-MAR-1994
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M.
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1447-104P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 703-205-8000
; TELEFAX: 703-205-8050
; INFORMATION FOR SEQ ID NO: 48:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 36 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: Peptide
; FRAGMENT TYPE: C-terminal
; FEATURE:
; NAME/KEY: Peptide
; LOCATION: 1-36
; OTHER INFORMATION: /label= MaSP2 repeat
; OTHER INFORMATION: /note= "see Table 2"
US-08-209-747-48
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Query Match 1.2%; Score 8; DB 1; Length 36;  
Best Local Similarity 100.0%; Pred. No. 2.7;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 36 AAAASAGP 43  
Db 26 AAAASAGP 33

## RESULT 8

US-08-458-298-48  
; Sequence 48, Application US/08458298  
; Patent No. 5756677  
; GENERAL INFORMATION:  
; APPLICANT: Lewis, Randolph V.  
; APPLICANT: Colgin, Mark  
; TITLE OF INVENTION: CDNA's Encoding Minor Ampullate Spider  
; TITLE OF INVENTION: Silk Proteins  
; NUMBER OF SEQUENCES: 56  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Birch, Stewart, Kolasch & Birch  
; STREET: P.O. Box 747  
; CITY: Falls Church  
; STATE: Virginia  
; COUNTRY: USA  
; ZIP: 22040-3487  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/458,298  
; FILING DATE: 02-JUN-1995  
; CLASSIFICATION: 530  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/209,747  
; FILING DATE: 14-MAR-1994  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Murphy Jr., Gerald M.  
; REGISTRATION NUMBER: 28,977  
; REFERENCE/DOCKET NUMBER: 1447-104P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 703-205-8000  
; TELEFAX: 703-205-8050  
; INFORMATION FOR SEQ ID NO: 48:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 36 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: Peptide  
; FRAGMENT TYPE: C-terminal  
; FEATURE:  
; NAME/KEY: Peptide  
; LOCATION: 1..36  
; OTHER INFORMATION: /label= Masp2 repeat  
; OTHER INFORMATION: /note= "see Table 2"  
US-08-458-298-48

Query Match 1.2%; Score 8; DB 1; Length 36;  
Best Local Similarity 100.0%; Pred. No. 2.7;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 36 AAAASAGP 43  
Db 26 AAAASAGP 33

## RESULT 9

US-08-317-844B-37  
; Sequence 37, Application US/08317844B  
; Patent No. 5989894

## ; GENERAL INFORMATION:

; APPLICANT: Lewis, Randolph V.  
; APPLICANT: Xu, Ming  
; APPLICANT: Himan, Michael B.  
; TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK  
; TITLE OF INVENTION: PROTEIN, A REPLICABLE VECTOR AND A TRANSFORMED CELL  
; TITLE OF INVENTION: CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF  
; NUMBER OF SEQUENCES: 62  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Birch, Stewart, Kolasch & Birch  
; STREET: 301 No. 5989894th Washington Street  
; CITY: Falls Church  
; STATE: Virginia  
; COUNTRY: U.S.A.  
; ZIP: 22046  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/317,844B  
; FILING DATE: 04-OCT-1994  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Murphy Jr., Gerald M.  
; REGISTRATION NUMBER: 28,977  
; REFERENCE/DOCKET NUMBER: 1447-105P  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (703) 241-1300  
; TELEFAX: (703) 241-2848  
; TELEX: 248345  
; INFORMATION FOR SEQ ID NO: 37:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 36 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: not relevant  
; TOPOLOGY: not relevant  
; MOLECULE TYPE: peptide  
; HYPOTHEICAL: NO  
; FRAGMENT TYPE: internal  
; ORIGINAL SOURCE: nephila clavipes  
; ORGANISM: nephila clavipes  
; FEATURE:  
; NAME/KEY: Peptide  
; LOCATION: 1..36  
; OTHER INFORMATION: /label= silk2\_repeat  
US-08-317-844B-37

Query Match 1.2%; Score 8; DB 2; Length 36;  
Best Local Similarity 100.0%; Pred. No. 2.7;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 36 AAAASAGP 43  
Db 26 AAAASAGP 33

## RESULT 10

US-09-252-991A-20684  
; Sequence 20684, Application US/09252991A  
; Patent No. 8551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142  
SEQ ID NO 20684  
LENGTH: 166

TYPE: PRT  
ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-20684

Query Match 1.2%; Score 8; DB 4; Length 166;  
Best Local Similarity 100.0%; Pred. No. 11;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 580 SAAATAAP 587  
DB 33 SAAATAAP 40

## RESULT 11

US-08-556-978B-59  
Sequence 59, Application US/08556978B  
Patent No. 6268169  
GENERAL INFORMATION:  
APPLICANT: FAHNESTOCK, STEPHEN F.  
TITLE OF INVENTION: NOVEL RECOMBINANTLY PRODUCED  
TITLE OF INVENTION: SPIDER SILK ANALOGS  
NUMBER OF SEQUENCES: 107  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: E. I. DU PONT DE NEMOURS AND COMPANY  
STREET: 1007 MARKET STREET  
CITY: WILMINGTON  
STATE: DELAWARE  
COUNTRY: UNITED STATES OF AMERICA  
ZIP: 19898

COMPUTER READABLE FORM:  
MEDIUM TYPE: DISKETTE, 3.50 INCH  
COMPUTER: IBM PC COMPATIBLE  
OPERATING SYSTEM: MICROSOFT WINDOWS 95  
SOFTWARE: MICROSOFT WORD FOR WINDOWS 95  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/556.978B

FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/077,600  
FILING DATE: JUNE 15, 1993  
ATTORNEY/AGENT INFORMATION:  
NAME: FLOYD, LINDA AXAMETHY  
REGISTRATION NUMBER: 33,692  
REFERENCE/DOCKET NUMBER: CR-9389-A  
TELEPHONE: 302-892-8112  
TELEFAX: 302-773-0164  
INFORMATION FOR SEQ ID NO: 59:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 493 amino acids  
TYPE: amino acid  
STRANDEDNESS: unknown  
TOPOLOGY: unknown  
MOLECULE TYPE: protein  
US-08-556-978B-59

Query Match 1.2%; Score 8; DB 3; Length 493;  
Best Local Similarity 100.0%; Pred. No. 28;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 36 AAAASAGP 43  
DB 421 AAAASAGP 428

## RESULT 12

US-09-247-806-2  
Sequence 2, Application US/09247806  
Patent No. 6260747

## GENERAL INFORMATION:

APPLICANT: PHILIPPE, Michel  
APPLICANT: GARSON, Jean-Claude  
APPLICANT: ARRAUDEAU, Jean-Pierre  
TITLE OF INVENTION: COSMETIC OR DERMATOLOGICAL COMPOSITION CONTACTING AT  
TITLE OF INVENTION: AT LEAST ONE NATURAL OR RECOMBINANT SPIDER SILK OR AN  
TITLE OF INVENTION: ANALOG

FILE REFERENCE: 6388-0365-0  
CURRENT APPLICATION NUMBER: US/09/247,806  
CURRENT FILING DATE: 1999-02-11  
EARLIER APPLICATION NUMBER: FR 98/01614  
EARLIER FILING DATE: 1998-02-11  
NUMBER OF SEQ ID NOS: 14  
SOFTWARE: Patent in Ver. 2.1  
SEQ ID NO 2

LENGTH: 529  
TYPE: PRT  
ORGANISM: Nephila clavipes  
US-09-247-806-2

Query Match 1.2%; Score 9; DB 3; Length 529;  
Best Local Similarity 100.0%; Pred. No. 30;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 36 AAAASAGP 43  
DB 457 AAAASAGP 464

## RESULT 13

US-08-425-069-4  
Sequence 4, Application US/08425069  
Patent No. 5728810

## GENERAL INFORMATION:

APPLICANT: Lewis, Randolph V.  
APPLICANT: Xu, Ming  
APPLICANT: Hinman, Michael B.  
TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK  
TITLE OF INVENTION: PROTEIN, A REPLICABLE VECTOR AND A TRANSFORMED CELL  
TITLE OF INVENTION: CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF  
NUMBER OF SEQUENCES: 69  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Birch, Stewart, Kolasch & Birch  
STREET: 301 No. 5728810th Washington Street  
CITY: Falls Church  
STATE: Virginia  
COUNTRY: U.S.A.  
ZIP: 22046

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.25  
CURRENT APPLICATION DATA: US/08/425,069  
APPLICATION NUMBER: US/08/425,069  
FILING DATE: 19-APR-1995  
CLASSIFICATION: 435

## ATTORNEY/AGENT INFORMATION:

NAME: Murphy Jr., Gerald M  
REGISTRATION NUMBER: 28,977  
REFERENCE/DOCKET NUMBER: 1447-106P  
TELEPHONE: (703) 205-8000  
TELEFAX: (703) 205-8050  
TELEX:

## INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:  
LENGTH: 595 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-425-069-4

Query Match 1.2%; Score 8; DB 1; Length 595;  
Best Local Similarity 100.0%; Pred. No. 34;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 36 AAAASAGP 43  
b 459 AAAASAGP 466

## RESULT 14

US-08-317-844B-4  
Sequence 4, Application US/08317844B  
Patent No. 5989894

GENERAL INFORMATION:  
APPLICANT: Lewis, Randolph V.

APPLICANT: Xu, Ming  
APPLICANT: Himman, Michael B.

TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK  
TITLE OF INVENTION: PROTEIN, A REPLICABLE VECTOR AND A TRANSFORMED CELL

NUMBER OF SEQUENCES: 62  
CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF

NUMBER OF SEQUENCES: 62

CORRESPONDENCE ADDRESS:

ADDRESSEE: Birch, Stewart, Kolasch & Birch  
STREET: 301 No. 5989894th Washington Street

CITY: Falls Church

STATE: Virginia

COUNTRY: U.S.A.

ZIP: 22046

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA: US/08/317,844B

APPLICATION NUMBER: US/08/317,844B

FILING DATE: 04-OCT-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Murphy Jr., Gerald M.

REGISTRATION NUMBER: 28,977

REFERENCE/DOCKET NUMBER: 1447-105P

TELECOMMUNICATION INFORMATION:

TELEPHONE: (703) 241-1300

TELEFAX: (703) 241-2848

TELEX: 248345

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 595 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-317-844B-4

Query Match 1.2%; Score 8; DB 2; Length 595;  
Best Local Similarity 100.0%; Pred. No. 34;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 36 AAAASAGP 43  
b 459 AAAASAGP 466

## RESULT 15

US-08-930-996A-8  
Sequence 8, Application US/08930996A  
Patent No. 6100449

GENERAL INFORMATION:

APPLICANT: FLUHR, Robert

APPLICANT: ESHED, Yuval

APPLICANT: ORI, Naomi

APPLICANT: PARAN, Ilan

APPLICANT: ZAMIR, Daniel

TITLE OF INVENTION: A GENE FAMILY FROM THE I2 FUSARIUM RESISTANCE

TITLE OF INVENTION: LOCUS OF TOMATO AND USE THEREOF FOR TRANSFORMATION AND  
TITLE OF INVENTION: SELECTIVE BREEDING OF TOMATO AND RELATED PLANTS  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:

ADDRESSEE: BROWDY AND NEIMARK

STREET: 419 Seventh Street, N.W., Suite 300

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20004

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA: US/08/930,996A

APPLICATION NUMBER: US/08/930,996A

FILING DATE: 09-DEC-1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/US96/05272

FILING DATE: 15-APR-1996

PRIOR APPLICATION DATA:

APPLICATION NUMBER: IL 113,373

FILING DATE: 13-APR-1995

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 920 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

US-08-930-996A-8

Query Match 1.2%; Score 8; DB 3; Length 920;

Best Local Similarity 100.0%; Pred. No. 50;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Y 196 FNLKYLNL 203  
b 602 FNLKYLNL 609

## RESULT 16

US-08-666-473-18

Sequence 18, Application US/08666473

Patent No. 5843713

GENERAL INFORMATION:

APPLICANT: YOSHIDA, Aruto

APPLICANT: TAKEUCHI, Makoto

TITLE OF INVENTION: PEPTIDE SEQUENCE THAT FORMS MUCIN SUGAR

TITLE OF INVENTION: CHAIN AND TECHNIQUE FOR MODIFYING PROTEIN TO BE LINKED

TITLE OF INVENTION: WITH MUCIN SUGAR CHAIN

NUMBER OF SEQUENCES: 114

CORRESPONDENCE ADDRESS:

ADDRESSEE: Foley & Lardner

STREET: 3000 K Street, N.W., Suite 500

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 20007-5109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/666,473

FILING DATE: 19-SEP-1996

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: WO PCT/JP95/02238

FILING DATE: 01-NOV-1995

PRIOR APPLICATION DATA:

```

APPLICATION NUMBER: JP 7-22101
FILING DATE: 09-FEB-1995
PRIOR APPLICATION DATA: JP 6-269111
FILING DATE: 01-NOV-1994
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 16887/837
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 7 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-666-473-18

Query Match      1.1%; Score 7; DB 2; Length 7;
Best Local Similarity 100.0%; Pred. No. 2.5e+05;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 581 AATAAP 587
DB 1 AATAAP 7

```

```

RESULT 17
PCT-US95-04121-52
Sequence 52, Application PC/TUS9504121
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Haptentated Peptides and Uses Thereof
NUMBER OF SEQUENCES: 62
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30 (BPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/04121
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/222,206
FILING DATE: April 1, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Vanstone, Darlene A.
REGISTRATION NUMBER: 35,279
REFERENCE/DOCKET NUMBER: 079.2PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 466-6000
TELEFAX: (617) 466-6010
INFORMATION FOR SEQ ID NO: 52:
SEQUENCE CHARACTERISTICS:
LENGTH: 13 amino acids
TYPE: amino acid
STRANDEDNESS:
TOPOLOGY: linear
MOLECULE TYPE: peptide
FRAGMENT TYPE: internal
PCT-US95-04121-52

```

```

Query Match      1.1%; Score 7; DB 5; Length 13;
Best Local Similarity 100.0%; Pred. No. 10;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 33 AATAAAA 39
DB 1 AATAAAA 7

```

```

RESULT 18
US-09-134-001C-4592
Sequence 4592, Application US/09134001C
Patent No. 6380370
GENERAL INFORMATION:
APPLICANT: Lynn Doucette-Stamm et al
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: GTC-007
CURRENT APPLICATION NUMBER: US/09/134,001C
CURRENT FILING DATE: 1998-08-13
PRIOR APPLICATION NUMBER: US 60/064,964
PRIOR FILING DATE: 1997-11-08
PRIOR APPLICATION NUMBER: US 60/055,779
PRIOR FILING DATE: 1997-08-14
NUMBER OF SEQ ID NOS: 5674
SEQ ID NO 4592
LENGTH: 69
TYPE: PRT
ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4592

```

```

Query Match      1.1%; Score 7; DB 4; Length 69;
Best Local Similarity 100.0%; Pred. No. 45;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 254 VSLIERN 260
DB 32 VSLIERN 38

```

```

RESULT 19
US-09-344-529-2
Sequence 2, Application US/09344529
Patent No. 6429293
GENERAL INFORMATION:
APPLICANT: Hew, Choy L.
TITLE OF INVENTION: Sculpin-Type Antifreeze Polypeptides and Nucleic Acids
FILE REFERENCE: 016252-002620US
CURRENT APPLICATION NUMBER: US/09/344,529
CURRENT FILING DATE: 1999-06-24
EARLIER APPLICATION NUMBER: US 60/090,794
EARLIER FILING DATE: 1998-06-26
EARLIER APPLICATION NUMBER: US 60/095,713
EARLIER FILING DATE: 1998-08-07
NUMBER OF SEQ ID NOS: 19
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO 2
LENGTH: 92
TYPE: PRT
ORGANISM: Myoxocephalus scorpius
US-09-344-529-2

```

```

Query Match      1.1%; Score 7; DB 4; Length 92;
Best Local Similarity 100.0%; Pred. No. 58;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 577 AATSAAA 583
DB 63 AATSAAA 69

```

```

RESULT 20
US-09-732-210-1283
Sequence 1283, Application US/09732210
Patent No. 6573361
GENERAL INFORMATION:
APPLICANT: Bunkers, Greg J.
APPLICANT: Liang, Jihong
APPLICANT: Mittanck, Cindy A.

```



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; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yonnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1283
; LENGTH: 102
; TYPE: PRT
; ORGANISM: Planobispora rosea
IS-09-732-210-1283

Query Match
Best Local Similarity 1.1%; Score 7; DB 4; Length 102;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2y 172 SLMLDL 178
2b 86 SLMLDL 92

RESULT 21
US-09-252-991A-18911
; Sequence 18911, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 18911
; LENGTH: 116
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18911

Query Match
Best Local Similarity 1.1%; Score 7; DB 4; Length 116;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 416 LSDTGVY 422
Db 61 LSDTGVY 67

RESULT 22
US-09-732-210-1518
; Sequence 1518, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bunkers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mittanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yonnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1520
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Brassica napus
US-09-732-210-1519

Query Match
Best Local Similarity 1.1%; Score 7; DB 4; Length 129;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 400 RISVLND 406
Db 2 RISVLND 8

RESULT 23
US-09-732-210-1519
; Sequence 1519, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bunkers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mittanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yonnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1519
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Brassica napus
US-09-732-210-1519

Query Match
Best Local Similarity 1.1%; Score 7; DB 4; Length 129;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 400 RISVLND 406
Db 2 RISVLND 8

RESULT 24
US-09-732-210-1520
; Sequence 1520, Application US/09732210
; Patent No. 6573361
; GENERAL INFORMATION:
; APPLICANT: Bunkers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mittanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Wu, Yonnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1520
; LENGTH: 129
; TYPE: PRT
; ORGANISM: Brassica napus
US-09-732-210-1519
```

```

; TYPE: PRT
; ORGANISM: Dictyostelium discoideum
US-09-732-210-1520

Query Match      1.1%; Score 7; DB 4; Length 129;
Best Local Similarity 100.0%; Pred. No. 78;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 400 RISVLND 406
Db 2 RISVLND 8

RESULT 25
US-08-726-306A-18
; Sequence 18, Application US/08726306A
; Patent No. 5958684
; GENERAL INFORMATION:
; APPLICANT: van Leeuwen, Frederik Willem
; APPLICANT: Burbach, Johannes Peter Henri
; APPLICANT: Grosveld, Franklin G.
; TITLE OF INVENTION: DIAGNOSIS METHOD AND REAGENTS
; NUMBER OF SEQUENCES: 189
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Witcoff, Ltd.
; STREET: 1 Financial Center
; CITY: Boston
; STATE: MA
; COUNTRY: US
; ZIP: 02111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/726.306A
; FILING DATE: 02-Oct-1996
; PRIOR APPLICATION NUMBER: GS 95/20080.4
; FILING DATE: 02-Oct-1995
; APPLICATION DATA:
; APPLICATION NUMBER: US 60/009,832
; FILING DATE: 01-Jan-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams, Ph.D., Kathleen M.
; REGISTRATION NUMBER: 34,380
; REFERENCE/DOCKET NUMBER: 96,048-A (3255/00784)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 345-9100
; TELEFAX: (617) 345-9111
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 130 amino acids
; TYPE: amino acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: peptide
US-08-726-306A-18

Query Match      1.1%; Score 7; DB 2; Length 130;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 581 AAATAAP 587
Db 72 AAATAAP 78

RESULT 26
US-09-732-210-1517
; Sequence 1517, Application US/09732210
; Patent No. 6573361

```

```

; GENERAL INFORMATION:
; APPLICANT: Bunkers, Greg J.
; APPLICANT: Liang, Jihong
; APPLICANT: Mittanck, Cindy A.
; APPLICANT: Seale, Jeffrey W.
; APPLICANT: Mr. Ronnie S.
; TITLE OF INVENTION: Anti-fungal Proteins and Methods for Their Use
; FILE REFERENCE: 38-21(15036)B
; CURRENT APPLICATION NUMBER: US/09/732,210
; CURRENT FILING DATE: 2000-12-07
; PRIOR APPLICATION NUMBER: US 60/169,513
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: US 60/169,340
; PRIOR FILING DATE: 1999-12-07
; NUMBER OF SEQ ID NOS: 1753
; SEQ ID NO 1517
; LENGTH: 130
; TYPE: PRT
; ORGANISM: Agaricus bisporus
US-09-732-210-1517

Query Match      1.1%; Score 7; DB 4; Length 130;
Best Local Similarity 100.0%; Pred. No. 79;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 400 RISVLND 406
Db 3 RISVLND 9

RESULT 27
US-09-674-741-4
; Sequence 4, Application US/09674741
; Patent No. 6548280
; GENERAL INFORMATION:
; APPLICANT: E. I. du Pont de Nemours and Company
; TITLE OF INVENTION: Genes Encoding Sulfate Assimilation Proteins
; FILE REFERENCE: BB-1167-E
; CURRENT APPLICATION NUMBER: US/09/674,741
; CURRENT FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: 60/092,833
; PRIOR FILING DATE: 1998-07-14
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 4
; LENGTH: 145
; TYPE: PRT
; ORGANISM: Zea mays
US-09-674-741-4

Query Match      1.1%; Score 7; DB 4; Length 145;
Best Local Similarity 100.0%; Pred. No. 87;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 390 TVLSHAS 396
Db 72 TVLSHAS 78

RESULT 28
US-09-252-991A-18029
; Sequence 18029, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190

```

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 18029

LENGTH: 148

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-18029

Query Match 1.1%; Score 7; DB 4; Length 148;

Best Local Similarity 100.0%; Pred. No. 89;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

y 576 PAATSA 582

b 115 PAATSA 121

ESULT 29

S-09-252-991A-21836

Sequence 21836, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

FILE REFERENCE: 107196.136

CURRENT FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US/09/252,991A

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 21836

LENGTH: 153

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

S-09-252-991A-21836

Query Match

Best Local Similarity 1.1%; Score 7; DB 4; Length 153;

Matches 7; Conservative 0; Mismatches 0; Indels 0;

y 36 AAAASAG 42

b 91 AAAASAG 97

ESULT 30

S-09-191-647-8

Sequence 8, Application US/09191647

Patent No. 6046015

GENERAL INFORMATION:

APPLICANT: Goodman, Corey

APPLICANT: Kid, Thomas

APPLICANT: Brose, Katja

APPLICANT: Tessier-Lavigne, Marc

TITLE OF INVENTION: Modulating Robo: Ligand Interactions

FILE REFERENCE: 598-031-3

CURRENT APPLICATION NUMBER: US/09/191,647

CURRENT FILING DATE: 1998-11-13

EARLIER APPLICATION NUMBER: 60/065,544

EARLIER FILING DATE: 1997-11-14

EARLIER APPLICATION NUMBER: 60/081,057

EARLIER FILING DATE: 1998-04-07

NUMBER OF SEQ ID NOS: 14

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 8

LENGTH: 155

TYPE: PRT

ORGANISM: Caenorhabditis elegans

S-09-191-647-8

Query Match

1.1%; Score 7; DB 3; Length 155;

Query Match 1.1%; Score 7; DB 3; Length 155;

Best Local Similarity 100.0%; Pred. No. 92;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 146 LSKREL 152

Db 145 LSKREL 151

RESULT 31

US-09-540-245A-8

Sequence 8, Application US/09540245A

Patent No. 6270984

GENERAL INFORMATION:

APPLICANT: Goodman, Corey

APPLICANT: Kid, Thomas

APPLICANT: Brose, Katja

APPLICANT: Tessier-Lavigne, Marc

TITLE OF INVENTION: Modulating Robo: Ligand Interactions

FILE REFERENCE: 598-031-3

CURRENT APPLICATION NUMBER: US/09/540,245A

CURRENT FILING DATE: 2000-03-31

PRIOR APPLICATION NUMBER: 60/065,544

PRIOR FILING DATE: 1997-11-14

PRIOR APPLICATION NUMBER: 60/081,057

PRIOR FILING DATE: 1998-04-07

NUMBER OF SEQ ID NOS: 20

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 8

LENGTH: 155

TYPE: PRT

ORGANISM: Caenorhabditis elegans

NAME/KEY: misc feature

LOCATION: (4)\_(152)

OTHER INFORMATION: note="Xaa signifies gap in sequence"

US-09-540-245A-8

Query Match

Best Local Similarity 1.1%; Score 7; DB 3; Length 155;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 146 LSKREL 152

Db 145 LSKREL 151

RESULT 32

US-09-540-153-8

Sequence 8, Application US/09540153

Patent No. 6270995

GENERAL INFORMATION:

APPLICANT: Goodman, Corey

APPLICANT: Kid, Thomas

APPLICANT: Brose, Katja

APPLICANT: Tessier-Lavigne, Marc

TITLE OF INVENTION: Modulating Robo: Ligand Interactions

FILE REFERENCE: 598-031-3

CURRENT APPLICATION NUMBER: US/09/540,153

CURRENT FILING DATE: 2000-03-31

PRIOR APPLICATION NUMBER: 09/191,647

PRIOR FILING DATE: 1998-11-13

PRIOR APPLICATION NUMBER: 60/081,057

PRIOR FILING DATE: 1998-04-07

NUMBER OF SEQ ID NOS: 14

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 8

LENGTH: 155

TYPE: PRT

ORGANISM: Caenorhabditis elegans

US-09-540-153-8

Query Match

1.1%; Score 7; DB 3; Length 155;

Best Local Similarity 100.0%; Pred. No. 92;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 146 LSKUREL 152  
Db 145 LSKUREL 151

RESULT 33  
US-09-252-991A-29851  
; Sequence 29851, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 29851  
; LENGTH: 175  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-29851

Query Match 1.1%; Score 7; DB 4; Length 175;  
Best Local Similarity 100.0%; Pred. No. 1e-02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 580 SARATAA 586  
Db 2 SARATAA 8

RESULT 34  
US-08-986-485-8  
; Sequence 8, Application US/08986485  
; Patent No. 6046030  
; GENERAL INFORMATION:  
; APPLICANT: WU, SHUIAN  
; APPLICANT: SWEET, RAYMOND  
; TITLE OF INVENTION: A HUMAN LIG-1 HOMOLOG (HLIG-1)  
; NUMBER OF SEQUENCES: 8  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: RATNER & PRESTIA  
; STREET: P.O. BOX 980  
; CITY: VALLEY FORGE  
; STATE: PA  
; COUNTRY: USA  
; ZIP: 19482  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette  
; COMPUTER: IBM Compatible  
; OPERATING SYSTEM: DOS  
; SOFTWARE: FastSeq for Windows Version 2.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/986,485  
; FILING DATE: 08-DEC-1997  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 60/059,448  
; FILING DATE: 22-SEP-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: PRESTIA, PAUL F.  
; REGISTRATION NUMBER: 23,031  
; REFERENCE/DOCKET NUMBER: GH-70264  
; TELECOMMUNICATION INFORMATION:

TELEPHONE: 610-407-0700  
TELEFAX: 610-407-0701  
TELEX: 846169  
; INFORMATION FOR SEQ ID NO: 8:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 180 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
US-08-986-485-8

Query Match 1.1%; Score 7; DB 3; Length 180;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 138 IPSCAPE 144  
Db 70 IPSCAPE 76

RESULT 35  
US-09-252-991A-31669  
; Sequence 31669, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 31669  
; LENGTH: 182  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-31669

Query Match 1.1%; Score 7; DB 4; Length 182;  
Best Local Similarity 100.0%; Pred. No. 1.1e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 582 ATAAPS 588  
Db 97 ATAAPS 103

RESULT 36  
US-09-252-991A-17837  
; Sequence 17837, Application US/09252991A  
; Patent No. 6551795  
; GENERAL INFORMATION:  
; APPLICANT: Marc J. Rubenfield et al.  
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
; FILE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS  
; FILE REFERENCE: 107196.136  
; CURRENT APPLICATION NUMBER: US/09/252,991A  
; CURRENT FILING DATE: 1999-02-18  
; PRIOR APPLICATION NUMBER: US 60/074,788  
; PRIOR FILING DATE: 1998-02-18  
; PRIOR APPLICATION NUMBER: US 60/094,190  
; PRIOR FILING DATE: 1998-07-27  
; NUMBER OF SEQ ID NOS: 33142  
; SEQ ID NO 17837  
; LENGTH: 204  
; TYPE: PRT  
; ORGANISM: Pseudomonas aeruginosa  
US-09-252-991A-17837

Query Match 1.1%; Score 7; DB 4; Length 204;  
 Best Local Similarity 100.0%; Pred. No. 1.2e+02;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

578 ATSAAT 584  
 129 ATSAAT 135

RESULT 37  
 S-09-252-991A-17234  
 Sequence 17234, Application US/09252991A  
 Patent No. 6551795  
 GENERAL INFORMATION:  
 APPLICANT: Marc J. Rubenfield et al.  
 TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS  
 FILE REFERENCE: 107196.136  
 CURRENT APPLICATION NUMBER: US/09/252,991A  
 CURRENT FILING DATE: 1999-02-18  
 PRIOR APPLICATION NUMBER: US 60/074,788  
 PRIOR FILING DATE: 1998-02-18  
 PRIOR APPLICATION NUMBER: US 60/094,190  
 PRIOR FILING DATE: 1998-07-27  
 NUMBER OF SEQ ID NOS: 33142  
 SEQ ID NO 17234  
 LENGTH: 205  
 TYPE: PRT  
 ORGANISM: Pseudomonas aeruginosa  
 S-09-252-991A-17234

Query Match 1.1%; Score 7; DB 4; Length 205;  
 Best Local Similarity 100.0%; Pred. No. 1.2e+02;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

577 AATSAAT 583  
 133 AATSAAT 139

RESULT 38  
 S-08-456-670B-39  
 Sequence 39, Application US/08456670B  
 Patent No. 5932415  
 GENERAL INFORMATION:  
 APPLICANT: SCHUBERT, PETER  
 APPLICANT: NEUMANN, SIEGFRIED  
 APPLICANT: PAWELZIK, MARTINA  
 APPLICANT: LINXWILLER, WINFRIED  
 APPLICANT: BURGER, CHRISTA  
 APPLICANT: HOFMANN, GOTTFRIED  
 APPLICANT: BUBERT, ANDREAS  
 APPLICANT: GOEBEL, WERNER  
 APPLICANT: KOHLER, STEFAN  
 TITLE OF INVENTION: PROCESSES AND AGENTS FOR DETECTING  
 TITLE OF INVENTION: LISTERIAS  
 NUMBER OF SEQUENCES: 43  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: MILLEN, WHITE, ZELANO & BRANIGAN, P.C.  
 STREET: 2200 CLARENDON BLVD., SUITE 1400  
 CITY: ARLINGTON  
 STATE: VIRGINIA  
 COUNTRY: US  
 ZIP: 22201

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/456.670B  
 FILING DATE: 01-JUN-1995

CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/412,227  
 FILING DATE: 27-MAR-1995  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/075,248  
 FILING DATE: 11-JUN-1993  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: DE 4239567.4  
 FILING DATE: 25-NOV-1992  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: DE 4219111.4  
 FILING DATE: 11-JUN-1992  
 ATTORNEY/AGENT INFORMATION:  
 NAME: HAMLET-KING, DIANA  
 REGISTRATION NUMBER: 33,302  
 REFERENCE/DOCKET NUMBER: MERCK 1694D1  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 703-243-6333  
 TELEFAX: 703-243-6410  
 TELEX: 64191  
 INFORMATION FOR SEQ ID NO: 39:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 232 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 ORIGINAL SOURCE:  
 ORGANISM: Listeria monocytogenes  
 STRAIN: EGD  
 US-08-456-670B-39

Query Match 1.1%; Score 7; DB 2; Length 232;  
 Best Local Similarity 100.0%; Pred. No. 1.3e+02;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 457 VTIVETTE 463  
 DB 43 VTIVETTE 49

RESULT 39  
 US-08-286-888B-1  
 Sequence 1, Application US/08286888B  
 Patent No. 5627024  
 GENERAL INFORMATION:  
 APPLICANT: MATUYAMA, Ichiro  
 APPLICANT: MATUYAMA, Hiroko  
 APPLICANT: BRENNER, Sydney  
 TITLE OF INVENTION: LAMBDOID BACTERIOPHAGE VECTORS FOR  
 TITLE OF INVENTION: EXPRESSION OF FOREIGN PROTEINS  
 NUMBER OF SEQUENCES: 15  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: The Scripps Research Institute, Office of  
 ADDRESSEE: Patent Counsel  
 STREET: 10666 No. 5627024th Torrey Pines Road, TPCB  
 CITY: La Jolla  
 STATE: CA  
 COUNTRY: USA  
 ZIP: 92037  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/286.888B  
 FILING DATE: 05-AUG-1994  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Fitting, Thomas  
 REGISTRATION NUMBER: 34,163  
 REFERENCE/DOCKET NUMBER: TSRI 432.0

TELECOMMUNICATION INFORMATION:  
TELEPHONE: 619-554-2937  
TELEFAX: 619-554-6312  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 246 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
US-08-286-888B-1

Query Match 1.1%; Score 7; DB 1; Length 246;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 557 RSTVTAA 563  
DB 155 RSTVTAA 161

RESULT 40  
US-08-294-386C-1  
Sequence 1, Application US/08294386C  
Patent No. 5646030  
GENERAL INFORMATION:  
APPLICANT: Ray, Bryan L.  
APPLICANT: Lin, Edmund C.C.  
TITLE OF INVENTION: Method Of Isolating Mutant Cells  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lappin & Kusmer  
STREET: 200 State Street  
CITY: Boston  
STATE: MA  
COUNTRY: U.S.A.  
ZIP: 02109

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/294,386C  
FILING DATE: August 23, 1994  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: Kerner, Ann-Louise  
REGISTRATION NUMBER: 33,523  
REFERENCE/DOCKET NUMBER: SYZZ-010CIP  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/330-1311  
TELEFAX: 617/330-1311  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 246 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO

US-08-294-386C-1

Query Match 1.1%; Score 7; DB 1; Length 246;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 557 RSTVTAA 563  
DB 155 RSTVTAA 161

RESULT 41  
US-08-294-386C-3  
Sequence 3, Application US/08294386C  
Patent No. 5646030  
GENERAL INFORMATION:  
APPLICANT: Ray, Bryan L.  
APPLICANT: Lin, Edmund C.C.  
TITLE OF INVENTION: Method Of Isolating Mutant Cells  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Lappin & Kusmer  
STREET: 200 State Street  
CITY: Boston  
STATE: MA  
COUNTRY: U.S.A.  
ZIP: 02109

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/294,386C  
FILING DATE: August 23, 1994  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: Kerner, Ann-Louise  
REGISTRATION NUMBER: 33,523  
REFERENCE/DOCKET NUMBER: SYZZ-010CIP  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/330-1311  
TELEFAX: 617/330-1311  
INFORMATION FOR SEQ ID NO: 3:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 246 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
HYPOTHETICAL: NO  
ANTI-SENSE: NO

US-08-294-386C-3

Query Match 1.1%; Score 7; DB 1; Length 246;  
Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 557 RSTVTAA 563  
DB 155 RSTVTAA 161

RESULT 42  
US-08-299-249A-1  
Sequence 1, Application US/08299249A  
Patent No. 5650267  
GENERAL INFORMATION:  
APPLICANT: Ray, Bryan L.; and  
APPLICANT: Lin, Edmund C.C.  
TITLE OF INVENTION: Method Of Detecting Compounds  
Utilizing Genetically Modified  
TITLE OF INVENTION: Utilizing Genetically Modified  
TITLE OF INVENTION: Lambdaoid Bacteriophage  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: HALE and DORR  
STREET: 60 State Street  
CITY: Boston  
STATE: MA  
COUNTRY: U.S.A.  
ZIP: 02109

COMPUTER READABLE FORM:

us-09-989-279-229.oli6.ra1

Fri Feb 6 10:51:24 2004

MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/299,249A  
 FILING DATE: 31-AUG-1994  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/053,865  
 FILING DATE: 27-APR-1993  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Kerner, Ann-Louise  
 REGISTRATION NUMBER: 33,523  
 REFERENCE/DOCKET NUMBER: SYZ-011FWC  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617/526-6000  
 TELEFAX: 617/526-5000  
 INFORMATION FOR SEQ ID NO: 1:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 246 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: peptide  
 HYPOTHETICAL: YES  
 US-08-299-249A-1

Query Match 1.1%; Score 7; DB 1; Length 246;  
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 557 RSTVTAA 563  
 DB 155 RSTVTAA 161

RESULT 43  
 US-08-299-249A-10  
 ; Sequence 1, Application US/08299249A  
 ; Patent No. 5650267  
 ; GENERAL INFORMATION:  
 ; APPLICANT: RAY, Bryan L.; and  
 ; APPLICANT: LIN, Edmund C.C.  
 ; TITLE OF INVENTION: Method Of Detecting Compounds  
 ; TITLE OF INVENTION: Utilizing Genetically Modified  
 ; TITLE OF INVENTION: Lambdaoid Bacteriophage  
 ; NUMBER OF SEQUENCES: 15  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: HALE and DORR  
 ; STREET: 60 State Street  
 ; CITY: Boston  
 ; STATE: MA  
 ; COUNTRY: U.S.A.  
 ; ZIP: 02109  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/299,249A  
 ; FILING DATE: 31-AUG-1994  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/053,865  
 ; FILING DATE: 27-APR-1993  
 ; CLASSIFICATION: 435  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Kerner, Ann-Louise  
 ; REGISTRATION NUMBER: 33,523  
 ; REFERENCE/DOCKET NUMBER: SYZ-011FWC

TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 617/526-6000  
 TELEFAX: 617/526-5000  
 INFORMATION FOR SEQ ID NO: 10:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 246 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 HYPOTHETICAL: NO  
 US-08-299-249A-10

Query Match 1.1%; Score 7; DB 1; Length 246;  
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 557 RSTVTAA 563  
 DB 155 RSTVTAA 161

RESULT 44  
 US-08-590-708-1  
 ; Sequence 1, Application US/08590708  
 ; Patent No. 5663069  
 ; GENERAL INFORMATION:  
 ; APPLICANT: RAY, Bryan L.  
 ; APPLICANT: LIN, Edmund C.C.  
 ; TITLE OF INVENTION: Method Of Detecting  
 ; TITLE OF INVENTION: Compounds Utilizing  
 ; TITLE OF INVENTION: Chemically Modified  
 ; TITLE OF INVENTION: Lambdaoid Bacteriophage  
 ; NUMBER OF SEQUENCES: 4  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: Allegretti & Witcoff, Ltd.  
 ; STREET: 75 State Street  
 ; CITY: Boston  
 ; STATE: MA  
 ; COUNTRY: U.S.A.  
 ; ZIP: 02109  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/590,708  
 ; FILING DATE:  
 ; CLASSIFICATION: 435  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/053,866A  
 ; FILING DATE: 19930427  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Kerner, Ann-Louise  
 ; REGISTRATION NUMBER: 33,523  
 ; REFERENCE/DOCKET NUMBER: 93,075  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 617/345-9100  
 ; TELEFAX: 617/345-9111  
 ; INFORMATION FOR SEQ ID NO: 1:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 246 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: peptide  
 ; HYPOTHETICAL: YES  
 ; ANTI-SENSE: NO  
 ; US-08-590-708-1

Query Match 1.1%; Score 7; DB 1; Length 246;  
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;

QY 557 RSTVTAA 563  
 DB 155 RSTVTAA 161

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 557 RSTVTAA 563  
Db 155 RSTVTAA 161

## RESULT 45

PCT-US94-06543-1

; Sequence 1, Application PC/TUS9406543  
; GENERAL INFORMATION:

; APPLICANT: Ray, Bryan L.  
; APPLICANT: Lin, Edmund C.C.  
; TITLE OF INVENTION: Method of Detecting Compounds  
; TITLE OF INVENTION: Utilizing  
; TITLE OF INVENTION: Genetically Modified Lambdaoid  
; TITLE OF INVENTION: Bacteriophage

; NUMBER OF SEQUENCES: 9

; CORRESPONDENCE ADDRESS:

ADDRESSEE: Lappin &amp; Kusmer

STREET: 200 State Street

CITY: Boston

STATE: MA

COUNTRY: U.S.A.

ZIP: 02109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US94/06543

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Kerner, Ann-Louise

REGISTRATION NUMBER: 33,523

REFERENCE/DOCKET NUMBER: SYZZ-011PCT

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617/330-1300

TELEFAX: 617/330-1311

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 246 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

HYPOTHETICAL: YES

ANTI-SENSE: NO

PCT-US94-06543-1

Query Match 1.1%; Score 7; DB 5; Length 246;

Best Local Similarity 100.0%; Pred. No. 1.4e+02;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 557 RSTVTAA 563  
Db 155 RSTVTAA 161

## RESULT 46

PCT-US95-10224-1

; Sequence 1, Application PC/TUS9510224  
; GENERAL INFORMATION:

; APPLICANT: PRESIDENT AND FELLOWS OF

APPLICANT: HARVARD COLLEGE

; TITLE OF INVENTION: Method of Isolating Mutant Cells

; NUMBER OF SEQUENCES: 13

; CORRESPONDENCE ADDRESS:

ADDRESSEE: Lappin &amp; Kusmer

STREET: 200 State Street

CITY: Boston

; STATE: MA  
; COUNTRY: U.S.A.  
; ZIP: 02109  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/10224  
; FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/294,386

FILING DATE: August 23, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Kerner, Ann-Louise

REGISTRATION NUMBER: 33,523

REFERENCE/DOCKET NUMBER: SYZZ-010CIP

TELECOMMUNICATION INFORMATION:

TELEPHONE: 617/330-1300

TELEFAX: 617/330-1311

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 246 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

ANTI-SENSE: NO

PCT-US95-10224-1

Query Match 1.1%; Score 7; DB 5; Length 246;

Best Local Similarity 100.0%; Pred. No. 1.4e+02;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 557 RSTVTAA 563  
Db 155 RSTVTAA 161

## RESULT 47

PCT-US95-10224-3

; Sequence 3, Application PC/TUS9510224  
; GENERAL INFORMATION:

; APPLICANT: PRESIDENT AND FELLOWS OF

APPLICANT: HARVARD COLLEGE

; TITLE OF INVENTION: Method of Isolating Mutant Cells

; NUMBER OF SEQUENCES: 13

; CORRESPONDENCE ADDRESS:

ADDRESSEE: Lappin &amp; Kusmer

STREET: 200 State Street

CITY: Boston

STATE: MA

COUNTRY: U.S.A.

ZIP: 02109

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: PCT/US95/10224

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/294,386

FILING DATE: August 23, 1994

ATTORNEY/AGENT INFORMATION:

NAME: Kerner, Ann-Louise

REGISTRATION NUMBER: 33,523

REFERENCE/DOCKET NUMBER: SYZZ-010CIP



## TELECOMMUNICATION INFORMATION:

TELEPHONE: 617/330-1300

TELEFAX: 617/330-1311

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 246 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: protein

HYPOTHETICAL: NO

ANTI-SENSE: NO

CT-US95-10224-3

Query Match 1.1%; Score 7; DB 5; Length 246;

Best Local Similarity 100.0%; Pred. No. 1.4e+02;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

y 557 RSTVTAA 563

b 155 RSTVTAA 161

## RESULT 48

US-09-252-991A-23672

Sequence 23672, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 23672

LENGTH: 247

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

S-09-252-991A-23672

Query Match 1.1%; Score 7; DB 4; Length 247;

Best Local Similarity 100.0%; Pred. No. 1.4e+02;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

y 581 AAATAAP 587

b 185 AAATAAP 191

## RESULT 49

S-08-630-915A-8

Sequence 8, Application US/08630915A

Patent No. 6309820

GENERAL INFORMATION:

APPLICANT: SPARKS, Andrew B.

APPLICANT: HOFFMAN, No. 6309820h

APPLICANT: KAY, Brian K.

APPLICANT: FOWLES, Dana M.

APPLICANT: McCONNELL, Stephen J.

TITLE OF INVENTION: POLYPEPTIDES HAVING A FUNCTIONAL

TITLE OF INVENTION: DOMAIN OF INTEREST AND METHODS OF IDENTIFYING AND

TITLE OF INVENTION: USING SAME

NUMBER OF SEQUENCES: 227

CORRESPONDENCE ADDRESS:

ADDRESSEE: Pennie &amp; Edmonds LLP

STREET: 1155 Avenue of the Americas

CITY: New York

STATE: New York

COUNTRY: USA

ZIP: 10036-2711

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/630,915A

FILING DATE: 03-APR-1996

CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:

NAME: Mistock, S. Leslie

REGISTRATION NUMBER: 18,872

REFERENCE/DOCKET NUMBER: 1101-174

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 790-9090

TELEFAX: (212) 869-8864/9741

TELEX: 66141 PENNIE

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 251 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-630-915A-8

## Query Match

Best Local Similarity 1.1%; Score 7; DB 4; Length 251;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

y 36 AAAASAG 42

b 8 AAAASAG 14

## RESULT 50

US-09-252-991A-23261

Sequence 23261, Application US/09252991A

Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

FILE REFERENCE: 107196.136

CURRENT APPLICATION NUMBER: US/09/252,991A

CURRENT FILING DATE: 1999-02-18

PRIOR APPLICATION NUMBER: US 60/074,788

PRIOR FILING DATE: 1998-02-18

PRIOR APPLICATION NUMBER: US 60/094,190

PRIOR FILING DATE: 1998-07-27

NUMBER OF SEQ ID NOS: 33142

SEQ ID NO 23261

LENGTH: 266

TYPE: PRT

ORGANISM: Pseudomonas aeruginosa

US-09-252-991A-23261

## Query Match

Best Local Similarity 1.1%; Score 7; DB 4; Length 266;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

y 577 AATSAAA 583

b 19 AATSAAA 25

Search completed: February 5, 2004, 16:07:15

Job time : 24 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 CompuGen Ltd.

WM protein - protein search, using sw model

run on: February 5, 2004, 16:06:13 ; Search time 38 Seconds  
(without alignments)

3598.069 Million cell updates/sec

Title: US-09-989-279-229

Perfect score: 653

Sequence: 1 MKLILQVTHVHTWNAILLP.....ISSPYIIQTHTKDQVOETOI 653

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 801455 seqs, 209382283 residues

Word size : 6

Total number of hits satisfying chosen parameters: 12807

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 150 summaries

Database : Published Applications AA:

- 1: /cgn2\_6/ptodata/2/pubaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/ptodata/2/pubaa/PCT\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/ptodata/2/pubaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/ptodata/2/pubaa/US06\_PUBCOMB.pep.\*
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- 11: /cgn2\_6/ptodata/2/pubaa/US09C\_PUBCOMB.pep.\*
- 12: /cgn2\_6/ptodata/2/pubaa/US09D\_PUBCOMB.pep.\*
- 13: /cgn2\_6/ptodata/2/pubaa/US10A\_PUBCOMB.pep.\*
- 14: /cgn2\_6/ptodata/2/pubaa/US10B\_PUBCOMB.pep.\*
- 15: /cgn2\_6/ptodata/2/pubaa/US10C\_PUBCOMB.pep.\*
- 16: /cgn2\_6/ptodata/2/pubaa/US10\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/ptodata/2/pubaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/ptodata/2/pubaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	653	100.0	653	9	US-09-989-723-229
2	653	100.0	653	9	US-09-989-723-229
3	653	100.0	653	9	US-09-989-723-229
4	653	100.0	653	9	US-09-989-723-229
5	653	100.0	653	10	US-09-989-731-229
6	653	100.0	653	10	US-09-989-732-229
7	653	100.0	653	10	US-09-989-732-229
8	653	100.0	653	10	US-09-989-732-229
9	653	100.0	653	10	US-09-989-732-229
10	653	100.0	653	10	US-09-989-732-229
11	653	100.0	653	10	US-09-989-732-229
12	653	100.0	653	10	US-09-989-732-229
13	653	100.0	653	10	US-09-989-732-229
14	653	100.0	653	10	US-09-989-732-229
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Sequence 229, App	US-09-991-181-229	653	100.0	653	10
Sequence 229, App	US-09-989-730-229	653	100.0	653	10
Sequence 229, App	US-09-990-436-229	653	100.0	653	10
Sequence 229, App	US-09-993-687-229	653	100.0	653	10
Sequence 229, App	US-09-989-734-229	653	100.0	653	11
Sequence 229, App	US-09-997-653-229	653	100.0	653	11
Sequence 229, App	US-09-993-667-229	653	100.0	653	11
Sequence 229, App	US-09-997-428-229	653	100.0	653	11
Sequence 229, App	US-09-997-666-229	653	100.0	653	11
Sequence 229, App	US-09-990-438-229	653	100.0	653	11
Sequence 229, App	US-09-990-562-229	653	100.0	653	11
Sequence 229, App	US-09-990-711-229	653	100.0	653	11
Sequence 229, App	US-09-989-726-229	653	100.0	653	11
Sequence 229, App	US-09-998-156-229	653	100.0	653	11
Sequence 229, App	US-09-990-437-229	653	100.0	653	11
Sequence 229, App	US-09-991-157-229	653	100.0	653	11
Sequence 229, App	US-09-997-514-229	653	100.0	653	11
Sequence 229, App	US-09-997-573-229	653	100.0	653	11
Sequence 229, App	US-09-991-172-229	653	100.0	653	11
Sequence 229, App	US-09-990-726-229	653	100.0	653	11
Sequence 229, App	US-09-997-559-229	653	100.0	653	11
Sequence 229, App	US-09-997-601-229	653	100.0	653	11
Sequence 229, App	US-09-990-443-229	653	100.0	653	11
Sequence 229, App	US-09-991-854-229	653	100.0	653	11
Sequence 229, App	US-09-997-628-229	653	100.0	653	11
Sequence 229, App	US-09-997-683-229	653	100.0	653	11
Sequence 229, App	US-09-989-729A-229	653	100.0	653	11
Sequence 229, App	US-09-997-349-229	653	100.0	653	11
Sequence 229, App	US-09-997-440-229	653	100.0	653	11
Sequence 229, App	US-09-990-440-229	653	100.0	653	11
Sequence 229, App	US-09-993-469-229	653	100.0	653	11
Sequence 229, App	US-09-997-542-229	653	100.0	653	11
Sequence 229, App	US-09-993-748-229	653	100.0	653	11
Sequence 229, App	US-09-990-439-229	653	100.0	653	11
Sequence 229, App	US-09-990-427-229	653	100.0	653	11
Sequence 229, App	US-09-989-328-229	653	100.0	653	11
Sequence 229, App	US-09-993-583-229	653	100.0	653	11
Sequence 229, App	US-09-941-992-229	653	100.0	653	11
Sequence 229, App	US-09-992-521-229	653	100.0	653	11
Sequence 229, App	US-09-997-333-229	653	100.0	653	11
Sequence 229, App	US-09-997-384-229	653	100.0	653	11
Sequence 229, App	US-09-998-041-229	653	100.0	653	11
Sequence 229, App	US-09-997-585-229	653	100.0	653	11
Sequence 229, App	US-09-997-614-229	653	100.0	653	11
Sequence 229, App	US-09-989-862-229	653	100.0	653	12
Sequence 229, App	US-09-989-725-229	653	100.0	653	12
Sequence 229, App	US-09-997-529-229	653	100.0	653	12
Sequence 438, App	US-10-137-870-438	653	100.0	653	12
Sequence 438, App	US-10-140-018-438	653	100.0	653	12
Sequence 438, App	US-10-140-021-438	653	100.0	653	12
Sequence 438, App	US-10-140-274-438	653	100.0	653	12
Sequence 438, App	US-10-140-471-438	653	100.0	653	12
Sequence 438, App	US-10-140-807-438	653	100.0	653	12
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Sequence 438, App	US-10-141-704-438	653	100.0	653	12
Sequence 438, App	US-10-142-421-438	653	100.0	653	12
Sequence 438, App	US-10-142-432-438	653	100.0	653	12
Sequence 438, App	US-10-142-767-438	653	100.0	653	12
Sequence 438, App	US-10-143-033-438	653	100.0	653	12
Sequence 438, App	US-10-144-994-438	653	100.0	653	12
Sequence 438, App	US-10-145-628-438	653	100.0	653	12
Sequence 438, App	US-10-145-631-438	653	100.0	653	12
Sequence 438, App	US-10-145-633-438	653	100.0	653	12
Sequence 438, App	US-10-145-746-438	653	100.0	653	12
Sequence 438, App	US-10-145-823-438	653	100.0	653	12
Sequence 438, App	US-10-145-826-438	653	100.0	653	12
Sequence 438, App	US-10-145-870-438	653	100.0	653	12

89	653	100.0	653	12	US-10-145-876-438	Sequence 438, App	APPLICANT: Baker, Kevin P.
90	653	100.0	653	12	US-10-145-959-438	Sequence 438, App	APPLICANT: Botstein, David
91	653	100.0	653	12	US-10-146-724-438	Sequence 438, App	APPLICANT: Desnoyers, Luc
92	653	100.0	653	12	US-10-146-725-438	Sequence 438, App	APPLICANT: Eaton, Dan L.
93	653	100.0	653	12	US-10-146-795-438	Sequence 438, App	APPLICANT: Ferrara, Napoleone
94	653	100.0	653	12	US-10-147-495-438	Sequence 438, App	APPLICANT: Fong, Sherman
95	653	100.0	653	12	US-10-147-501-438	Sequence 438, App	APPLICANT: Gerber, Hanspeter
96	653	100.0	653	12	US-10-147-504-438	Sequence 438, App	APPLICANT: Gerritsen, Mary E.
97	653	100.0	653	12	US-10-147-506-438	Sequence 438, App	APPLICANT: Goddard, Audrey
98	653	100.0	653	12	US-10-147-509-438	Sequence 438, App	APPLICANT: Godowski, Paul J.
99	653	100.0	653	12	US-10-147-510-438	Sequence 438, App	APPLICANT: Grimaldi, J. Christopher
100	653	100.0	653	12	US-10-147-511-438	Sequence 438, App	APPLICANT: Gurney, Austin L.
101	653	100.0	653	12	US-10-147-529-438	Sequence 438, App	APPLICANT: Kljavin, Ivar J.
102	653	100.0	653	12	US-10-152-397-438	Sequence 438, App	APPLICANT: Napier, Mary A.
103	653	100.0	653	12	US-10-153-586-438	Sequence 438, App	APPLICANT: Pan, James
104	653	100.0	653	12	US-10-158-783-438	Sequence 438, App	APPLICANT: Paoni, Nicholas F.
105	653	100.0	653	12	US-10-158-786-438	Sequence 438, App	APPLICANT: Roy, Margaret Ann
106	653	100.0	653	12	US-10-140-019-438	Sequence 438, App	APPLICANT: Stewart, Timothy A.
107	653	100.0	653	12	US-10-140-022-438	Sequence 438, App	APPLICANT: Tumas, Daniel
108	653	100.0	653	12	US-10-140-861-438	Sequence 438, App	APPLICANT: Watanabe, Colin K.
109	653	100.0	653	12	US-10-140-862-438	Sequence 438, App	APPLICANT: Williams, P. Mickey
110	653	100.0	653	12	US-10-141-697-438	Sequence 438, App	APPLICANT: Wood, William I.
111	653	100.0	653	12	US-10-141-700-438	Sequence 438, App	APPLICANT: Zhang, Zemin
112	653	100.0	653	12	US-10-141-705-438	Sequence 438, App	TITLE OF INVENTION: Scrated and Transmembrane Polypeptides and Nucleic
113	653	100.0	653	12	US-10-141-753-438	Sequence 438, App	FILE REFERENCE: P2730P1C63
114	653	100.0	653	12	US-10-141-758-438	Sequence 438, App	CURRENT APPLICATION NUMBER: US/09/989,722
115	653	100.0	653	12	US-10-142-418-438	Sequence 438, App	PRIOR FILING DATE: 2001-11-19
116	653	100.0	653	12	US-10-142-420-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/049787
117	653	100.0	653	12	US-10-142-422-438	Sequence 438, App	PRIOR FILING DATE: 1997-05-16
118	653	100.0	653	12	US-10-142-427-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/062250
119	653	100.0	653	12	US-10-142-760-438	Sequence 438, App	PRIOR FILING DATE: 1997-10-17
120	653	100.0	653	12	US-10-145-821-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/065186
121	653	100.0	653	12	US-10-152-531-438	Sequence 438, App	PRIOR FILING DATE: 1997-11-12
122	653	100.0	653	12	US-10-203-708-25	Sequence 25, Appl	PRIOR APPLICATION NUMBER: 60/065311
123	653	100.0	653	12	US-10-127-840A-438	Sequence 438, App	PRIOR FILING DATE: 1997-11-13
124	653	100.0	653	12	US-10-142-424-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/066770
125	653	100.0	653	12	US-10-142-761-438	Sequence 438, App	PRIOR FILING DATE: 1997-11-24
126	653	100.0	653	12	US-10-142-763-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/075945
127	653	100.0	653	12	US-10-142-765-438	Sequence 438, App	PRIOR FILING DATE: 1998-02-25
128	653	100.0	653	12	US-10-142-887-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/078910
129	653	100.0	653	12	US-10-142-888-438	Sequence 438, App	PRIOR FILING DATE: 1998-03-20
130	653	100.0	653	12	US-10-143-034-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/083322
131	653	100.0	653	12	US-10-143-116-438	Sequence 438, App	PRIOR FILING DATE: 1998-04-28
132	653	100.0	653	12	US-10-144-957-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/084600
133	653	100.0	653	12	US-10-144-992-438	Sequence 438, App	PRIOR FILING DATE: 1998-05-07
134	653	100.0	653	12	US-10-145-015-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/087106
135	653	100.0	653	12	US-10-145-090-438	Sequence 438, App	PRIOR FILING DATE: 1998-05-28
136	653	100.0	653	12	US-10-145-091-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/087607
137	653	100.0	653	12	US-10-145-629-438	Sequence 438, App	PRIOR FILING DATE: 1998-06-02
138	653	100.0	653	12	US-10-145-630-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/087609
139	653	100.0	653	12	US-10-145-747-438	Sequence 438, App	PRIOR FILING DATE: 1998-06-02
140	653	100.0	653	12	US-10-145-752-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/087759
141	653	100.0	653	12	US-10-145-754-438	Sequence 438, App	PRIOR FILING DATE: 1998-06-02
142	653	100.0	653	12	US-10-145-755-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/087827
143	653	100.0	653	12	US-10-145-818-438	Sequence 438, App	PRIOR FILING DATE: 1998-06-03
144	653	100.0	653	12	US-10-145-820-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/088021
145	653	100.0	653	12	US-10-145-872-438	Sequence 438, App	PRIOR FILING DATE: 1998-06-04
146	653	100.0	653	12	US-10-145-873-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/088025
147	653	100.0	653	12	US-10-147-481-438	Sequence 438, App	PRIOR FILING DATE: 1998-06-04
148	653	100.0	653	12	US-10-147-482-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/088026
149	653	100.0	653	12	US-10-147-503-438	Sequence 438, App	PRIOR FILING DATE: 1998-06-04
150	653	100.0	653	12	US-10-147-522-438	Sequence 438, App	PRIOR APPLICATION NUMBER: 60/088028

## ALIGNMENTS

RESULT 1  
US-09-989-722-229  
; Sequence 229, Application US/09989722  
; Patent No. US20020072067A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.

PRIOR FILING DATE: 1998-06-05  
PRIOR APPLICATION NUMBER: 60/088202  
PRIOR FILING DATE: 1998-06-05  
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PRIOR FILING DATE: 1998-06-05  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 9; Length 653;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db	61	CTTRGLSEVPQGPISNTRYLNLMENNIQMIQADTPRHLHLHLVLOLGRNSIROIEVGAFN	120
Qy	121	GLASLNTLELFDNWLTVIPSGAFEYLSKRLMLRNNPIESIPSAFNRVPSLMLDLIGE	180
Db	121	GLASLNTLELFDNWLTVIPSGAFEYLSKRLMLRNNPIESIPSAFNRVPSLMLDLIGE	180
Qy	181	LKKLEYISEGAFEGFLNKLKYNLGNKCNKMDPNITPLVGLHELEMSGNHFFPIRPGSPHG	240
Db	181	LKKLEYISEGAFEGFLNKLKYNLGNKCNKMDPNITPLVGLHELEMSGNHFFPIRPGSPHG	240
Qy	241	L4SLAKLWUMSOVSLIERNADFGLASLVEINLAHNNISLPHDLFTPLRYLVELHLHN	300

241 LSSLLKLVWMSQVSLIERNADFGLASIVELNLAHNLSLPHDLPTPLRYLVELHLEN 300  
301 PWNCCDILWLAWLREYIPNNSCCGRCHAPMMRGYLVVVDQASFQCSAPFINDAPR 360  
301 PWNCCDILWLAWLREYIPNNSCCGRCHAPMMRGYLVVVDQASFQCSAPFINDAPR 360  
361 DLNISEGMAELKRTIPMSVKKLLPNGTVLSHASHPRIISVLNDGTLNFSHVLLSDTG 420  
361 DLNISEGMAELKRTIPMSVKKLLPNGTVLSHASHPRIISVLNDGTLNFSHVLLSDTG 420  
421 VYTCMVTNVAAGNSASAYLVNSTAELNNTSNYSFPTTVTTEISPDTRKKKPVPTTS 480  
421 VYTCMVTNVAAGNSASAYLVNSTAELNNTSNYSFPTTVTTEISPDTRKKKPVPTTS 480  
481 TGYOPAYTSTVLIIQTRVPKQVAVPATDTDKMOTSLDEWVKTKIIIGCFVAVTLLA 540  
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601 IHDHINNTYKPAHGAHWTENSGLNSLHPTVTITISEPYIIQTHTKDKVQSTQI 653  
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RESULT 2

US-09-989-723-229  
Sequence 229, Application US/09989723  
Patent No. US20020072092A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tuma, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC62  
CURRENT APPLICATION NUMBER: US/09/989,723  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
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PRIOR FILING DATE: 1998-02-25

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PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091478  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091544  
PRIOR FILING DATE: 1998-07-01  
PRIOR APPLICATION NUMBER: 60/091519  
PRIOR FILING DATE: 1998-07-02

Query Match 100.0%; Score 553; DB 9; Length 553;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 61 CTARGLSEVPOGIPSNTRYLNLMENNIQMIQADTFRHLHLEVLQGRNSROIHVGFN 120  
Qy 121 GLASLNTIELFONMLTVIPSGAFYLSKLRELNLNNPIESIPSAFNRVPSLMRLDGE 180  
Db 121 GLASLNTIELFONMLTVIPSGAFYLSKLRELNLNNPIESIPSAFNRVPSLMRLDGE 180  
Qy 181 LKLEYISEGAPEGLFNKLYNLGMCNIKDMNLTPLVGLLELEMSGNHPPPIRPGSPHG 240  
Db 181 LKLEYISEGAPEGLFNKLYNLGMCNIKDMNLTPLVGLLELEMSGNHPPPIRPGSPHG 240  
Qy 241 LSSLKLLWNSQVSLIERAFQGLASIVELNLHNNISSLPHDLFTPLRYLVELHLHN 300  
Db 241 LSSLKLLWNSQVSLIERAFQGLASIVELNLHNNISSLPHDLFTPLRYLVELHLHN 300  
Qy 301 PWNCCDILLAWLREYIPTNSTCCGRCHAPMHMERGYLVEVDQASFOCSAPFIMDAPR 360  
Db 301 PWNCCDILLAWLREYIPTNSTCCGRCHAPMHMERGYLVEVDQASFOCSAPFIMDAPR 360  
Qy 361 DLNISEGRMAELKCRTPPMSSVKLLPNGTVLSHARHPRIISVINDGTLNPSHVLSDTG 420  
Db 361 DLNISEGRMAELKCRTPPMSSVKLLPNGTVLSHARHPRIISVINDGTLNPSHVLSDTG 420  
Qy 421 VYTCMTNVAGNSNAYLNVSIAELNTSNYSFFTTVTVTETTEISPEDTRKYKVPPTS 480  
Db 421 VYTCMTNVAGNSNAYLNVSIAELNTSNYSFFTTVTVTETTEISPEDTRKYKVPPTS 480  
Qy 481 TGYQPAYTTSTTVLIQTTRVPKQAVPATDTTDKMQTSLDEVMKTKIIIGCFVAVTLIA 540  
Db 481 TGYQPAYTTSTTVLIQTTRVPKQAVPATDTTDKMQTSLDEVMKTKIIIGCFVAVTLIA 540  
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Db 541 AAMLIVPYKLKXHQORSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVLPT 600  
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Db 601 IHDHINYTKPAHGAHWTEINSLSLHPTVTIISSEPIYIIQTHTKDKVQETQI 653  
RESULT 3  
US-09-989-279-229  
; Sequence 229, Application US/09989279  
; Patent No. US20020072496A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnovers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavini, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC56  
CURRENT APPLICATION NUMBER: US/09/989,279  
CURRENT FILING DATE: 2001-11-19  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 9; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MKLLQVTVVHHTWNAILLPEVYLTAQVWILCAALIAAASAGPQNCPSVCSNQSFKV 60  
1 MKLLQVTVVHHTWNAILLPEVYLTAQVWILCAALIAAASAGPQNCPSVCSNQSFKV 60  
61 CTRRGLSEVPQIPSNTRYLNLMENNITQIADTFRLHHLVQLGRNSIRQIEVGAFN 120  
61 CTRRGLSEVPQIPSNTRYLNLMENNITQIADTFRLHHLVQLGRNSIRQIEVGAFN 120  
121 GLASLNTLELFDNWLTVBSCAPEYLSKLELWLRNNPIESIPSYAFNRVPSLMLRLDICE 180  
121 GLASLNTLELFDNWLTVBSCAPEYLSKLELWLRNNPIESIPSYAFNRVPSLMLRLDICE 180  
181 LKLEYISEGAFEGFLNKLVLNGLWNCIKOMPNTPLVGLERLEMGNNHPPETRPGSFEG 240  
181 LKLEYISEGAFEGFLNKLVLNGLWNCIKOMPNTPLVGLERLEMGNNHPPETRPGSFEG 240  
241 LSSLLKLWNNQSQSLIERNAPGGLASIVLNLAHNNLSLPHDLFTPLRYLVLEHLHEN 300  
241 LSSLLKLWNNQSQSLIERNAPGGLASIVLNLAHNNLSLPHDLFTPLRYLVLEHLHEN 300  
301 PWNCCDILMLAWMLREYIPNTNSCCGRCHAPMHRGRYLVVEDVQASFPQCSAPFINDAPR 360  
301 PWNCCDILMLAWMLREYIPNTNSCCGRCHAPMHRGRYLVVEDVQASFPQCSAPFINDAPR 360  
361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRPRISVLNDGTLNFSHVLSDTG 420

Db 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRPRISVLNDGTLNFSHVLSDTG 420  
Qy 421 VYTCMVTVNAGNSNASAYLNVTAEINTSNYSFFTTVTVEITEISPEDTTRKYKVPPTS 480  
Db 421 VYTCMVTVNAGNSNASAYLNVTAEINTSNYSFFTTVTVEITEISPEDTTRKYKVPPTS 480  
Qy 481 TGYQPAYTTSTTVLIQTTTRVPKQVAVPATDTRKQVTSLDEVMKTKIIIGCFVAVTLLA 540  
Db 481 TGYQPAYTTSTTVLIQTTTRVPKQVAVPATDTRKQVTSLDEVMKTKIIIGCFVAVTLLA 540  
Qy 541 AAMLIIVFYKLRKHQORSVTVAARTVEIIQVDEDIPAAATSAATAAPSGVSGEGAVLFT 600  
Db 541 AAMLIIVFYKLRKHQORSVTVAARTVEIIQVDEDIPAAATSAATAAPSGVSGEGAVLFT 600  
Qy 601 IHDFHINYNTKPAHGAHWNTENSIGNSLHPTVTTISPYIIQTHTKKQVQSTQI 653  
Db 601 IHDFHINYNTKPAHGAHWNTENSIGNSLHPTVTTISPYIIQTHTKKQVQSTQI 653

RESULT 4  
US-09-989-727-229  
; Sequence 229, Application US/09989727  
; Patent No. US20020072497A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Deenoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavini, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tamas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730P1C65  
; CURRENT APPLICATION NUMBER: US/09/989,727  
; CURRENT FILING DATE: 2001-11-19  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/065186  
; PRIOR FILING DATE: 1997-11-12  
; PRIOR APPLICATION NUMBER: 60/065311  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: 60/066770  
; PRIOR FILING DATE: 1997-11-24  
; PRIOR APPLICATION NUMBER: 60/075945  
; PRIOR FILING DATE: 1998-02-25  
; PRIOR APPLICATION NUMBER: 60/078910  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/083322  
; PRIOR FILING DATE: 1998-04-28  
; PRIOR APPLICATION NUMBER: 60/084600  
; PRIOR FILING DATE: 1998-05-07  
; PRIOR APPLICATION NUMBER: 60/087106



[illegible]

PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 9; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 M K L L Q V T V H H T W N A I L L P F V Y L T A Q W I L C A A A A S A G P Q N C S V C S C S N Q S F S K V 60  
1 M K L L Q V T V H H T W N A I L L P F V Y L T A Q W I L C A A A A S A G P Q N C S V C S C S N Q S F S K V 60

61 C T R G L S R V P Q I P E N T R Y L N M E N N I O M I Q A D T F R H L H L E V L Q L G R N S I R O I E V G A F N 120  
61 C T R G L S R V P Q I P E N T R Y L N M E N N I O M I Q A D T F R H L H L E V L Q L G R N S I R O I E V G A F N 120

121 G L A S L N T L E L F D N W L T V I P S G A F E Y L S K L R E L W R N N P I E S I P S Y A F N R V P S L M R L D L G E 180  
121 G L A S L N T L E L F D N W L T V I P S G A F E Y L S K L R E L W R N N P I E S I P S Y A F N R V P S L M R L D L G E 180

181 L K K L Y I S E G A P E G L F N K Y L N L G M C N I K O M P N L T P L V G L E E L E M S G N H P P E I R P G S F G 240  
181 L K K L Y I S E G A P E G L F N K Y L N L G M C N I K O M P N L T P L V G L E E L E M S G N H P P E I R P G S F G 240

241 L S L K L W M S Q V S L I E R N A F D G L A S L V E L N L A H N L S L P H D L T P L R Y L V E L H L H N 300  
241 L S L K L W M S Q V S L I E R N A F D G L A S L V E L N L A H N L S L P H D L T P L R Y L V E L H L H N 300

301 P W C D C D I L M A W L R E V I P N S T C C G R C H A P M R G R Y I V E V D Q A S F Q C S A P P I N D A P R 360  
301 P W C D C D I L M A W L R E V I P N S T C C G R C H A P M R G R Y I V E V D Q A S F Q C S A P P I N D A P R 360

361 D L N I S E G R M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P I S V L N D G T L N F S H V L L S D T G 420  
361 D L N I S E G R M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P I S V L N D G T L N F S H V L L S D T G 420

421 V T C M V T V A G N S A S A V L N S T A E L N S I S F T T V T V T T I S E P D I T T R K Y K P V P T T S 480  
421 V T C M V T V A G N S A S A V L N S T A E L N S I S F T T V T V T T I S E P D I T T R K Y K P V P T T S 480

481 T G Y Q P A Y T T S T V L Q T T R V P K V A V P A T D T D R N Q T S L D E V M K T K I I G C F V A V T L L A 540  
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541 A A M L I V F Y K L R R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600  
541 A A M L I V F Y K L R R H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600

601 I H D H I N Y N T Y P A H G A H W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V O E T O I 653  
601 I H D H I N Y N T Y P A H G A H W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V O E T O I 653

## RESULT 5

IS-09-989-731-229  
Sequence 229, Application US/09989731  
Patent No. US20020103125A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.

APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C70  
CURRENT APPLICATION NUMBER: US/09/989,731  
CURRENT FILING DATE: 2001-11-20  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
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 / PRIOR FILING DATE: 1998-07-02
 / PRIOR APPLICATION NUMBER: 60/091978
 / PRIOR FILING DATE: 1998-07-07
 / PRIOR APPLICATION NUMBER: 60/091982
 / PRIOR FILING DATE: 1998-07-07
 / PRIOR APPLICATION NUMBER: 60/092182
 / PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 M K L L W Q V T V H H T W N A I L L P F V Y L T A Q W I L C A I A A A S A G P Q N C P S V C S C S N Q S K V V 60
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 QY 61 C T R R G L S E V P Q G I P S N T R Y L N L M E N N I Q M T Q A D T F R L H L H L E V L Q L G R N S I R Q I E V G A F N 120
 Dd 61 C T R R G L S E V P Q G I P S N T R Y L N L M E N N I Q M T Q A D T F R L H L H L E V L Q L G R N S I R Q I E V G A F N 120
 QY 121 G L A S I N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L R N N P I E S I P S Y A F N V P S I M R L D L G E 180
 Dd 121 G L A S I N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L R N N P I E S I P S Y A F N V P S I M R L D L G E 180
 QY 181 L K K L E Y I S E G A F E G L P N L K Y L N I L G M C N I K D M P N L T P L V G L E L E M S G N H F P I R P G S P H G 240
 Dd 181 L K K L E Y I S E G A F E G L P N L K Y L N I L G M C N I K D M P N L T P L V G L E L E M S G N H F P I R P G S P H G 240
 QY 241 L S S I K L W N S Q V S L I E R N A P D G L A S I V E L N A H N L S S L P H L F T P L Y L V E L H L H N 300
 Dd 241 L S S I K L W N S Q V S L I E R N A P D G L A S I V E L N A H N L S S L P H L F T P L Y L V E L H L H N 300
 QY 301 P W N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M H M E G R Y L V E V D Q A S F Q C S A P F I M D A P R 360
 Dd 301 P W N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M H M E G R Y L V E V D Q A S F Q C S A P F I M D A P R 360
 QY 361 D L N I S E G R M A E L K R T P P M S S V K W L L P N G T V I L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420
 Dd 361 D L N I S E G R M A E L K R T P P M S S V K W L L P N G T V I L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420
 QY 421 V Y T C M W T N V A G N S N A S A Y L N V S T A E L N T S N Y S F F T V T V E T T E I S P E D T T R K Y K V P T T S 480
 Dd 421 V Y T C M W T N V A G N S N A S A Y L N V S T A E L N T S N Y S F F T V T V E T T E I S P E D T T R K Y K V P T T S 480

481 TGQPAYTSTTVLIQTTTRVPKQVAPDATTDRKQTSLSDEVMKTKIIIGCFVAVTLLA 540  
b TGQPAYTSTTVLIQTTTRVPKQVAPDATTDRKQTSLSDEVMKTKIIIGCFVAVTLLA 540  
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b TGQPAYTSTTVLIQTTTRVPKQVAPDATTDRKQTSLSDEVMKTKIIIGCFVAVTLLA 540  
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b AAMLIVFYKLKRRHQRSVTVAARTVEIIQVDEDIPAA TSAATAAPSGVSGEGAVLPT 600  
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RESULT 6  
S-09-989-732-229  
Sequence 229, Application US/09989732  
Patent No. US20020123463A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
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APPLICANT: Napier, Mary A.  
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APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same  
FILE REFERENCE: P2730P1C57  
CURRENT APPLICATION NUMBER: US/09/989,732  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
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PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query March 100.0%; Score 653; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MKLLQVTVRHHHTWNAILLPPVYLTAOVWILCAIAAASAGPQNCPSVCSCNQSKVV 60  
QY 61 CTRRGLSEVPQGISNTRYLNLMMNNIOMIQADTFRLHHLHLEVLQLGRNSIROIEVGAFN 120  
DB 61 CTRRGLSEVPQGISNTRYLNLMMNNIOMIQADTFRLHHLHLEVLQLGRNSIROIEVGAFN 120  
QY 121 GLASLNTLELFDNMLTVIPSGAPEYLSKLRELHRLNPNPISIPSYAFNRVPSLMRLDLGE 180  
DB 121 GLASLNTLELFDNMLTVIPSGAPEYLSKLRELHRLNPNPISIPSYAFNRVPSLMRLDLGE 180  
QY 181 LKLEYISEGAPEGLFNLKYINLGMKNIKOMPNTPLVGLLEELMNSGNHPPPIRPSFHH 240  
DB 181 LKLEYISEGAPEGLFNLKYINLGMKNIKOMPNTPLVGLLEELMNSGNHPPPIRPSFHH 240  
QY 241 LSSLLKLLWVNSQVSLTERNAPOGLASLVELNLHNNLSLPHDLFTPLRYLVELHLHN 300  
DB 241 LSSLLKLLWVNSQVSLTERNAPOGLASLVELNLHNNLSLPHDLFTPLRYLVELHLHN 300  
QY 301 PWCDCDILMLAWLREYIPTNSTCCGRCHAPMHMRGRYLVVDQASFOCSAPFIMDAPR 360  
DB 301 PWCDCDILMLAWLREYIPTNSTCCGRCHAPMHMRGRYLVVDQASFOCSAPFIMDAPR 360  
QY 361 DLNISEGRMAELKCRTPMSSVKWLLPNGTULSHASHHPRISVLNDGTLNFSHVLSDTG 420  
DB 361 DLNISEGRMAELKCRTPMSSVKWLLPNGTULSHASHHPRISVLNDGTLNFSHVLSDTG 420  
QY 421 VYTCWVTNVAGNSNAYLNVSTAEALNTSNYSFPTTVTVEITISPEDTTRKYKVPVTTIS 480  
DB 421 VYTCWVTNVAGNSNAYLNVSTAEALNTSNYSFPTTVTVEITISPEDTTRKYKVPVTTIS 480  
QY 481 TGYPAYTISTTVLITQTRVPKQVADPTTDMQOTSLDEVMKTKIILGCFVAVTLLA 540  
DB 481 TGYPAYTISTTVLITQTRVPKQVADPTTDMQOTSLDEVMKTKIILGCFVAVTLLA 540  
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DB 601 IHDHINYNTYKPAHGAHWNTENSLSLHPTVTVEISEPIIOTHTKKVQVTOI 653

RESULT 7  
US-09-991-073-229  
Sequence 229, Application US/09991073  
Patent No. US20020127576A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gertsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
ACIDS Encoding the Same  
FILE REFERENCE: P2730P1C15  
CURRENT APPLICATION NUMBER: US/09/991,073  
CURRENT FILING DATE: 2001-11-14  
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PRIOR FILING DATE: 1997-06-16  
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QY 61 C T R R G L S E V P Q I P S N T R Y L N L M E N N I Q M I Q A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120
DB 61 C T R R G L S E V P Q I P S N T R Y L N L M E N N I Q M I Q A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120

QY 121 G L A S L N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L R N N I E I P S Y A F N R V P S I M R L D L G E 180
DB 121 G L A S L N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L R N N I E I P S Y A F N R V P S I M R L D L G E 180

QY 181 L X K L E Y I S E G A F E G L F N L A Y L N G M C N I K D M N L T P L V G L E E L E M S G N H F P E I R P G S F H G 240
DB 181 L X K L E Y I S E G A F E G L F N L A Y L N G M C N I K D M N L T P L V G L E E L E M S G N H F P E I R P G S F H G 240

QY 241 L S S L K K L W M N S Q V S L I E R N A F D G L A S L V E L N L A H N N L S S L P H D L F T P L R Y L V E L H L H N 300
DB 241 L S S L K K L W M N S Q V S L I E R N A F D G L A S L V E L N L A H N N L S S L P H D L F T P L R Y L V E L H L H N 300

QY 301 P W N C D C I L L W A W L R E Y I P T N S T C C G R C H A P M H V R G R Y L V E V D Q A S F Q C S A P F I M D A P R 360
DB 301 P W N C D C I L L W A W L R E Y I P T N S T C C G R C H A P M H V R G R Y L V E V D Q A S F Q C S A P F I M D A P R 360

QY 361 D L N I S E G R M A E L K C R T P P M S S V K M L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420
DB 361 D L N I S E G R M A E L K C R T P P M S S V K M L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420

QY 421 V Y T C M W T N V A G N S A Y L N V S T A E L N T S N Y S F F T V T V T E T L S P E D T T K Y K P V P T T S 480
DB 421 V Y T C M W T N V A G N S A Y L N V S T A E L N T S N Y S F F T V T V T E T L S P E D T T K Y K P V P T T S 480

QY 481 T G Y Q P A Y T T S T V L I Q T T R V P Q V A P A T D T T D K M Q T S L D E V M K T T K I I I C G F V A V T L L A 540
DB 481 T G Y Q P A Y T T S T V L I Q T T R V P Q V A P A T D T T D K M Q T S L D E V M K T T K I I I C G F V A V T L L A 540

QY 541 A A M L I V P Y K L R K H Q O R S T V T A R T V E I I O U D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600
DB 541 A A M L I V P Y K L R K H Q O R S T V T A R T V E I I O U D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600

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DB 601 I H D H I N Y N T Y K P A H G A H W T E N S L G N S L H P T V T T I S E P Y I I O T H T K D K V Q E T Q I 653

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; Sequence 229, Application US/09990442
; Patent No. US20020132252A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deshoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
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; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
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; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; ACIDS ENCODING THE SAME
; FILE REFERENCE: P2730PICB
; CURRENT APPLICATION NUMBER: US/09/990,442
; PRIOR FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
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Db 61 CTRGLSEVPOGIPNRYLNLMMENIQMIOADTFRLHLEVLQGRNSIRQIEVGAFN 120  
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Db 121 GLASNTLEFDMVLTVPSCAFYLSKIRELWLRNNPIESISYAFNRVPSLMRLDLGE 180  
QY 181 LKLEYISEGAFEGFLNLYLNLGCHCNKIDENITPVLGLEELSEMSGNHPEIRPGSFHG 240  
Db 181 LKLEYISEGAFEGFLNLYLNLGCHCNKIDENITPVLGLEELSEMSGNHPEIRPGSFHG 240  
QY 241 LSSLLKLVWNSQVSLIERNAPDGLASIVELNLAHNLSSLPDLFTPLLYLVELHLHN 300  
Db 241 LSSLLKLVWNSQVSLIERNAPDGLASIVELNLAHNLSSLPDLFTPLLYLVELHLHN 300  
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Db 301 PNWCDDILNLAWMLREYIPTNSICCRCHAPMVRGRLYVEVDQASFQCSAPFINDAPR 360  
QY 361 DLNISEGRMAELKCHTPPMSSVKMLLPNGTVLSHARHPRISVLDGTLNPSHVLSDTG 420  
Db 361 DLNISEGRMAELKCHTPPMSSVKMLLPNGTVLSHARHPRISVLDGTLNPSHVLSDTG 420  
QY 421 VYTCMVTVVAGNSASAYLNVSTAEIANTSNISFFTTVTTEISPDTRKYPVPTTS 480  
Db 421 VYTCMVTVVAGNSASAYLNVSTAEIANTSNISFFTTVTTEISPDTRKYPVPTTS 480  
QY 481 TGYQPAYTSTTVLITQTRVPKQAVPATDTTDMQTSLEDEWMTTKIIGCFVAVTLLA 540  
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Db 601 IHDHINYNTYKPAHGAHTENSGLNSLHPTVTITSEPIYIIOHTHKQKQVETQI 653

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US-09-991-163-229  
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; Patent No. US20020132253A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730P1C17  
; CURRENT APPLICATION NUMBER: US/09/991,163  
; CURRENT FILING DATE: 2001-11-14

; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
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; PRIOR FILING DATE: 1997-11-12  
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DB 301 PNCCDCDILMLAWLREVIPTNSTCCGRCHAPMWRGRLVEVDQASQCSAPFIMDAPR 360  
QY 361 DLNISEGRMAELKCTPPMSSVYKMLLPNGTVLSHSHRPRISVLNDGTLPNSHVLSDTG 420  
DB 361 DLNISEGRMAELKCTPPMSSVYKMLLPNGTVLSHSHRPRISVLNDGTLPNSHVLSDTG 420  
QY 421 VYTCMVTVVAGNSASAYLVNSTALNTSNYSFPTVTVEITETISPEDTTRKYKVPVPTS 480  
DB 421 VYTCMVTVVAGNSASAYLVNSTALNTSNYSFPTVTVEITETISPEDTTRKYKVPVPTS 480  
QY 481 TGYQPAYTTSITVLIOQTRVPKQVAVPATDTDKMQTSLDEVMKTKIIICGFAVATLLA 540  
DB 481 TGYQPAYTTSITVLIOQTRVPKQVAVPATDTDKMQTSLDEVMKTKIIICGFAVATLLA 540  
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DB 541 AAMLVFTKLRKHQORSTVTAARTVEIIQVDEIDPAATSAATAAPSGVSGEAVLPT 600  
QY 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTIISPEYIIQTHTKDKVQETQI 653  
DB 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTIISPEYIIQTHTKDKVQETQI 653

RESULT 10

IS-09-993-604-229  
Sequence 229, Application US/09993604  
Patent No. US20020137075A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Geritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavins, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730PIC25  
CURRENT APPLICATION NUMBER: US/09/993,604  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
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 Prior Application Number: 60/091626  
 Prior Filing Date: 1998-07-02  
 Prior Application Number: 60/091633  
 Prior Filing Date: 1998-07-02  
 Prior Application Number: 60/091978  
 Prior Filing Date: 1998-07-07  
 Prior Application Number: 60/091982  
 Prior Filing Date: 1998-07-07  
 Prior Application Number: 60/092182  
 Prior Filing Date: 1998-07-09

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181 LKLEYSISGAEGFLNFKYLNLMGNKIKOMPNTPLVGLSELENSGNHFFPIRPGSFHG 240  
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RESULT 11

US-09-990-456-229  
 ; Sequence 229, Application US/09990456  
 ; Patent No. US20020137890A1

GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kijavini, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tuma, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: P2730PIC22  
 ; CURRENT APPLICATION NUMBER: US/09/990,456  
 ; PRIOR FILING DATE: 2001-11-14  
 ; PRIOR APPLICATION NUMBER: 60/049787  
 ; PRIOR FILING DATE: 1997-06-16  
 ; PRIOR APPLICATION NUMBER: 60/062250  
 ; PRIOR FILING DATE: 1997-10-17  
 ; PRIOR APPLICATION NUMBER: 60/065186  
 ; PRIOR FILING DATE: 1997-11-12  
 ; PRIOR APPLICATION NUMBER: 60/065311



PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091544  
 PRIOR FILING DATE: 1998-07-01  
 PRIOR APPLICATION NUMBER: 60/091519  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091626  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091633  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MKLLQVTVHHTWNAILLPFVYLTQVWILCAAIAAASAGPQNCPSVCSNQSFKV 60  
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 301 PWNCDLILALAWLREVIPTNSTCCGCHAPMGRGYLVEVDQASFGCSAPFMDAPR 360  
 361 DLNISGRMAELKCTTPMSSVQWLLPNTGTVLSHARHPRIISVINDGTLPNSHVLSDTG 420  
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 541 AAWLVEFKLRKHQORSTVTAARTVEIIQVDEIDIPATSAATAAPSGVSGGAVLPT 600  
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RESULT 12  
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 Sequence 229, Application US/09989721  
 Patent No. US20020142961A1  
 GENERAL INFORMATION:  
 APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Ferrara, Napoleone  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Kijavini, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730PIC55  
 CURRENT APPLICATION NUMBER: US/09/989,721  
 PRIOR FILING DATE: 2001-11-19  
 PRIOR APPLICATION NUMBER: 60/049787  
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PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 M K L M O V T V H H T W N A I L L P F V I L T A Q V I L C A A I A A A A S A G P O N C P S V C S C S N O F S K V V 60  
DB 1 M K L M O V T V H H T W N A I L L P F V I L T A Q V I L C A A I A A A A S A G P O N C P S V C S C S N O F S K V V 60  
QY 61 C T R G L S E V P Q G I P S N T R Y L N L M E N N I Q I A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120  
DB 61 C T R G L S E V P Q G I P S N T R Y L N L M E N N I Q I A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120  
QY 121 G L A S L N T L E L F D N N L T V I P S G A F E Y I L S K L R E L W R N N P I E S I P S V A F N R V P S L M L D I G E 180  
DB 121 G L A S L N T L E L F D N N L T V I P S G A F E Y I L S K L R E L W R N N P I E S I P S V A F N R V P S L M L D I G E 180  
QY 181 L K L E Y I S S G A F E G L F N L K Y L N L G M C N I K M P N L T P L V G L E L E M S G N H F P I R P G S F H G 240  
DB 181 L K L E Y I S S G A F E G L F N L K Y L N L G M C N I K M P N L T P L V G L E L E M S G N H F P I R P G S F H G 240  
QY 241 L S S L K L W M N S Q V L I E R N A F D G L A S L V E L N A H N L S S L P H D L F T P L R Y L V L E L H L H N 300  
DB 241 L S S L K L W M N S Q V L I E R N A F D G L A S L V E L N A H N L S S L P H D L F T P L R Y L V L E L H L H N 300

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Y 361 DNISGRMAELKCRTPPMSSVKWLLPNCITVLSHRSRHRISVLNDGTLNFSHLLSDTG 420  
b 361 DNISGRMAELKCRTPPMSSVKWLLPNCITVLSHRSRHRISVLNDGTLNFSHLLSDTG 420  
Y 421 VYTCWTVNAGNSNAGSAYLVNSTAEINTSNYSFFTTVTVEITEISPEDTRKXKVPVPTS 480  
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Y 481 TGSOPAYTSTVLLIOCTTVKQVAVPATDTDDKMTSLDEVMKTKTKIIIGCFVAVTLLA 540  
b 481 TGSOPAYTSTVLLIOCTTVKQVAVPATDTDDKMTSLDEVMKTKTKIIIGCFVAVTLLA 540  
Y 541 AAMLIVFYKLRKHQORQSVTAAARTVEIIQVDEDIPAAATSAATAAPSGVSGEAGVILPT 600  
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Y 601 IHHDHINYTKPAKGAHWNTENSLGNSLHPTVTIISPEYIIQHTXKQVQETQI 653  
b 601 IHHDHINYTKPAKGAHWNTENSLGNSLHPTVTIISPEYIIQHTXKQVQETQI 653

ESULT 13  
S-09-992-598-229  
Sequence 229, Application US/09992598  
Patent No. US20020160384A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin E.  
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APPLICANT: Napier, Mary A.  
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APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730PIC20  
CURRENT APPLICATION NUMBER: US/09/992,598  
CURRENT FILING DATE: 2001-11-14  
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;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

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DB 1 MKLLMQVTVHHETWNAILLPFVYLTQAQVWILCAAIAAASAGPQPCSVSCSNQFSKV 60

QY 61 CTRGUSEVPOGIPSNTRYLNWENNIOQADTFRLHLEVLQGRNSTROIEVCAEN 120  
DB 61 CTRGUSEVPOGIPSNTRYLNWENNIOQADTFRLHLEVLQGRNSTROIEVCAEN 120

QY 121 GLASLNTLELFDNWLTVIPSGAFYLSKRLRLWLNPIESIPSYAFNRVPSLRLDLGE 180  
DB 121 GLASLNTLELFDNWLTVIPSGAFYLSKRLRLWLNPIESIPSYAFNRVPSLRLDLGE 180

QY 181 LKKLEVISSEGAPEGLFKLYNLGWNKDKMPNLTPLVGLLEELWMSGNHPPEIRPGSFG 240  
DB 181 LKKLEVISSEGAPEGLFKLYNLGWNKDKMPNLTPLVGLLEELWMSGNHPPEIRPGSFG 240

QY 241 LSLKLLWYMSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLYVELHLHN 300  
DB 241 LSLKLLWYMSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLYVELHLHN 300

QY 301 PNCDCDILWLAWLREYIPTNSTCCGCHAPMRCRYLVEVDQASFOCSAPFMDAPR 360  
DB 301 PNCDCDILWLAWLREYIPTNSTCCGCHAPMRCRYLVEVDQASFOCSAPFMDAPR 360

QY 361 DLNISEGRMAELKCKTPPMSSVKWLLPNGTVLSHSHRPRISVLNDGTINFSHVLLSDTG 420  
DB 361 DLNISEGRMAELKCKTPPMSSVKWLLPNGTVLSHSHRPRISVLNDGTINFSHVLLSDTG 420

QY 421 VTCWTVNAGNSNASAYLNSTAEANTSNYSPTTVTTTETISPEDTTRKYPVPTTS 480  
DB 421 VTCWTVNAGNSNASAYLNSTAEANTSNYSPTTVTTTETISPEDTTRKYPVPTTS 480

QY 481 TGYQPAYTTTTLVLTQTRVPEKQVAPATDTTDMQTSLDVEMKTKIIGCFVAVTLLA 540  
DB 481 TGYQPAYTTTTLVLTQTRVPEKQVAPATDTTDMQTSLDVEMKTKIIGCFVAVTLLA 540

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DB 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTTTISEPYIIQTHTKQVQETQI 653

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; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
ACIDS  
FILE REFERENCE: P27301C66  
CURRENT APPLICATION NUMBER: US/09/989,293A  
CURRENT FILING DATE: 2001-11-20  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
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27 PRIOR FILING DATE: 1998-07-02  
28 PRIOR APPLICATION NUMBER: 60/091544  
29 PRIOR FILING DATE: 1998-07-01  
30 PRIOR APPLICATION NUMBER: 60/091519  
31 PRIOR FILING DATE: 1998-07-02  
32 PRIOR APPLICATION NUMBER: 60/091626  
33 PRIOR FILING DATE: 1998-07-02  
34 PRIOR APPLICATION NUMBER: 60/091633  
35 PRIOR FILING DATE: 1998-07-02  
36 PRIOR APPLICATION NUMBER: 60/091978  
37 PRIOR FILING DATE: 1998-07-07  
38 PRIOR APPLICATION NUMBER: 60/091982  
39 PRIOR FILING DATE: 1998-07-07  
40 PRIOR APPLICATION NUMBER: 60/092182  
41 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MKLLWQVTVHHHTWNAILLPFVYLTQVWILCAAIAAASAGPQPCSCSNQFSKV 60  
1 MKLLWQVTVHHHTWNAILLPFVYLTQVWILCAAIAAASAGPQPCSCSNQFSKV 60  
61 CTRRGLSEVPQGISNTRYLNLMENNIQIADTFRLHHLVQLGRNSIRQIEVGAFN 120  
61 CTRRGLSEVPQGISNTRYLNLMENNIQIADTFRLHHLVQLGRNSIRQIEVGAFN 120  
121 GLASINTLELFDNWLTVIPSGAFEYLSKRELWLRNPNPIESTPSVAFNRPVSLMDLGE 180  
121 GLASINTLELFDNWLTVIPSGAFEYLSKRELWLRNPNPIESTPSVAFNRPVSLMDLGE 180  
181 LKLEYISEGAFGLFNKVLNLCMNIKMPNLTPLVGLSELEMSGNHPPFIRGSHG 240  
181 LKLEYISEGAFGLFNKVLNLCMNIKMPNLTPLVGLSELEMSGNHPPFIRGSHG 240  
241 LSLKKLWVNSQVSIERNAPGLASLVELNLNHLNLSLPHDLFTPLRYLVELLHNN 300  
241 LSLKKLWVNSQVSIERNAPGLASLVELNLNHLNLSLPHDLFTPLRYLVELLHNN 300  
301 PWCDCDILWAWLWREYIPTNSTCCGRCHAPMHGGRVYLVSDQASFOCSAPFFIMDAPR 360  
301 PWCDCDILWAWLWREYIPTNSTCCGRCHAPMHGGRVYLVSDQASFOCSAPFFIMDAPR 360  
361 DLNISGRMAELKCRTPPMSVKKWLLPNGTIVLSHARRHPRIVSLNDGTINFSHVLLSDTG 420  
361 DLNISGRMAELKCRTPPMSVKKWLLPNGTIVLSHARRHPRIVSLNDGTINFSHVLLSDTG 420

QY 421 VYTCMVTVNAGNSASAYLVNUSVTAELNLSNYSPTTVVTTTETTSISPEDTTRKYPVPTTS 480  
DB 421 VYTCMVTVNAGNSASAYLVNUSVTAELNLSNYSPTTVVTTTETTSISPEDTTRKYPVPTTS 480  
QY 481 TGYQPAYTTSTTVLIQTTRVPEKQVAVPATDITDKQVTSLEWVKTKIIIGCFVAVTLLA 540  
DB 481 TGYQPAYTTSTTVLIQTTRVPEKQVAVPATDITDKQVTSLEWVKTKIIIGCFVAVTLLA 540  
QY 541 AAMLIVPYKLRKHQOORSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGGAVVLP 600  
DB 541 AAMLIVPYKLRKHQOORSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGGAVVLP 600  
QY 601 IHDHINVTYKPAHGAHWNTENSLGNSLHPTVTTTISEPYIIQTHTKQVQFTOI 653  
DB 601 IHDHINVTYKPAHGAHWNTENSLGNSLHPTVTTTISEPYIIQTHTKQVQFTOI 653

RESULT 15  
US-09-989-735-229  
Sequence 229, Application US/09989735  
Publication No. US20020193299A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: KJavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C61  
CURRENT APPLICATION NUMBER: US/09/989,735  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066770  
PRIOR FILING DATE: 1997-11-24  
PRIOR APPLICATION NUMBER: 60/075945  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
PRIOR FILING DATE: 1998-03-20  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/087106  
PRIOR FILING DATE: 1998-05-28  
PRIOR APPLICATION NUMBER: 60/087607

[illegible]

PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. Mo. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MKLQVTHVHTWNAILLPFVYLTQWILCMIAAASAGQPCPSVCSQPSKVY 60  
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61 CTRGLSEVQGGIPSNTRYLNENNIQIADTFRLHHLVQLGRNSIRQIEVAFN 120  
121 GLASLNTLEFDNWLTVIPSGAFEYLSKRLWLNPNPIESTPSYAFNRVPSLRLDGE 180  
121 GLASLNTLEFDNWLTVIPSGAFEYLSKRLWLNPNPIESTPSYAFNRVPSLRLDGE 180  
181 LKLEVISSEGAPEGLFNKLYNLGNMKNIKDMPNLPVLGLBLELSNGHFFPIRPGSPHG 240  
181 LKLEVISSEGAPEGLFNKLYNLGNMKNIKDMPNLPVLGLBLELSNGHFFPIRPGSPHG 240  
241 LSSLLKLWVNSQVSLIERNAPDGLASLVELNLNHNLSLPHDLFTPLRYLVELHLHN 300  
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301 PWNCCDILMLANWLRREYIPTNSTCCGRCHAPMWRGRYLVEVDQASTQCSAPPTMDAPR 360  
301 PWNCCDILMLANWLRREYIPTNSTCCGRCHAPMWRGRYLVEVDQASTQCSAPPTMDAPR 360  
361 DLNISEGRMAELKCRTPPMSVSKVLLPNGTVLSHSHRPRISVLNDGTLNFSHVLSDTG 420  
361 DLNISEGRMAELKCRTPPMSVSKVLLPNGTVLSHSHRPRISVLNDGTLNFSHVLSDTG 420  
421 VYTCMVNTVAGNSNAYLNVSATLNTSNYSFFTTVTVEITTEISPEDTTKYKVPVPTS 480  
421 VYTCMVNTVAGNSNAYLNVSATLNTSNYSFFTTVTVEITTEISPEDTTKYKVPVPTS 480  
481 TGQOPATTTSTTVLIOTTRVPKQVAPATDTDKMQTSLDEVMKTKLIIICFVAVILLA 540  
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541 AAMLIVPYKLKRRHQQRSTVTAARTVEIIOVDEDIPAAATSAATAAPSGVSGEAVVLP 600  
541 AAMLIVPYKLKRRHQQRSTVTAARTVEIIOVDEDIPAAATSAATAAPSGVSGEAVVLP 600  
601 IHDHINTYKPAHGAHWNTENSIGNSLHPTVTIIEPIIIOHTKDKVQETQI 653  
601 IHDHINTYKPAHGAHWNTENSIGNSLHPTVTIIEPIIIOHTKDKVQETQI 653

RESULT 16

US-09-990-444-229  
Sequence 229, Application US/09990444

Publication No. US20020193300A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: KJavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C19  
CURRENT FILING DATE: 2001-11-14  
CURRENT APPLICATION NUMBER: US/09/990,444  
PRIOR FILING DATE: 1997-06-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-10-17  
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PRIOR FILING DATE: 1997-11-12  
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PRIOR FILING DATE: 1998-04-28  
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PRIOR APPLICATION NUMBER: 60/091519  
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PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
Best Local Similarity 100.0%; Freq. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 M K L L M Q V T V H H H T W A I L P F V Y L T A Q W I L C A A I A A A A S A G P Q C P S V C S C S N Q F S K V 60  
Db 1 M K L L M Q V T V H H H T W A I L P F V Y L T A Q W I L C A A I A A A A S A G P Q C P S V C S C S N Q F S K V 60

Qy 61 C T R G L S E V P Q G I P S N T R Y L N L M E N N I O M I A D T F R H L H L E V L Q I G R N S I R O I E V G A F N 120  
Db 61 C T R G L S E V P Q G I P S N T R Y L N L M E N N I O M I A D T F R H L H L E V L Q I G R N S I R O I E V G A F N 120

Qy 121 G L A S L A N T L E I F D N W L T V I P S G A F E Y L S K L R E L W L R N N P I E S I P S Y A F N R V P S L M R L D L G E 180  
Db 121 G L A S L A N T L E I F D N W L T V I P S G A F E Y L S K L R E L W L R N N P I E S I P S Y A F N R V P S L M R L D L G E 180

Qy 181 L K K L E Y I S E G A F E G L F N L K Y L N L G M C N I K O M P N L T P L V G L E S L E M S G N H P P E I R P G S F H G 240  
Db 181 L K K L E Y I S E G A F E G L F N L K Y L N L G M C N I K O M P N L T P L V G L E S L E M S G N H P P E I R P G S F H G 240

Qy 241 L S S L K L W M N S O V S L I E R N A D G L A S L V E L A N N L S S L P H D L F T P L R Y L V L V E L H L H N 300  
Db 241 L S S L K L W M N S O V S L I E R N A D G L A S L V E L A N N L S S L P H D L F T P L R Y L V L V E L H L H N 300

Qy 301 P W N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M E M R G R Y L V E V D Q A S F O C S A P P I M D A P R 360  
Db 301 P W N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M E M R G R Y L V E V D Q A S F O C S A P P I M D A P R 360

Qy 361 D L N I S E G R V A E L K C R T P P M S S V K W L L P A G T V L S H A S R H P R I S V L N D G T L N P S H V L L S D T G 420  
Db 361 D L N I S E G R V A E L K C R T P P M S S V K W L L P A G T V L S H A S R H P R I S V L N D G T L N P S H V L L S D T G 420

Qy 421 V Y T C M V T N V A G N S A S A Y L N V S T A E L N T S N Y S F F T V T V T T E T T E I S P E D T T R K Y K V P T S 480  
Db 421 V Y T C M V T N V A G N S A S A Y L N V S T A E L N T S N Y S F F T V T V T T E T T E I S P E D T T R K Y K V P T S 480

Qy 481 T G Y Q P A Y T T S T V L I O T T R V P K O V A P A T D T T D K M C T S L D E V M K T K I I I G C F V A V T I L A 540  
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481 TGYOPAVTSTVLIQITRVKQVAVPATDTTDMQTSLSDEWMTKIILGCFVATLLA 540
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RESULT 17

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US-09-989-181-229
Sequence 229, Application US/09991181
Publication No. US20020197615A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas P.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2730PICS3
CURRENT APPLICATION NUMBER: US/09/991,181
CURRENT FILING DATE: 2001-11-16
PRIOR APPLICATION NUMBER: 60/049787
PRIOR FILING DATE: 1997-06-16
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/065186
PRIOR FILING DATE: 1997-11-12
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
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PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/075945
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/084600
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/087106
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PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03

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Prior Filing Date: 1998-06-19  
Prior Application Number: 60/089952  
Prior Filing Date: 1998-06-19  
Prior Application Number: 60/090246  
Prior Filing Date: 1998-06-22  
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Prior Filing Date: 1998-06-22  
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Prior Filing Date: 1998-06-23  
Prior Application Number: 60/090429  
Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090431  
Prior Filing Date: 1998-06-24  
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Prior Filing Date: 1998-06-24  
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Prior Filing Date: 1998-06-24  
Prior Application Number: 60/090445  
Prior Filing Date: 1998-06-24  
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Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091626  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091633  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091978  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/091982  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/092182  
Prior Filing Date: 1998-07-09

Query Match 100.08; Score 653; DB 10; Length 653;  
Best Local Similarity 100.08; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
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Db 1 MXLEQVTVHHHTWNAILLPPVYLTQAQWILCAAIAAASAGPQNCPSVCSNQFSKV 60  
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Db 61 CTRRGLSEVPOGIPSNTRYLNLMMENNIQMIQADTFRIHLHLLEVQLGRNSIRQIEVGAFN 120  
QY 121 GLASLNTLELFDNMLTVTPSGAFYVLSKRLRELWLNPNPIESIPSYAFNRVPSLRLDGE 180  
Db 121 GLASLNTLELFDNMLTVTPSGAFYVLSKRLRELWLNPNPIESIPSYAFNRVPSLRLDGE 180  
QY 181 LKLEYISGAFEGFLNKLNLGNKCNIKDMPNITPLVGLBELEMSGNHPPPIRPGSPFHG 240  
Db 181 LKLEYISGAFEGFLNKLNLGNKCNIKDMPNITPLVGLBELEMSGNHPPPIRPGSPFHG 240  
QY 241 LSSLKXLMWMSQVSLIERNAPDGLASLVEINLHANNLSSLPHDLFTPLRLYLVELHLHN 300  
Db 241 LSSLKXLMWMSQVSLIERNAPDGLASLVEINLHANNLSSLPHDLFTPLRLYLVELHLHN 300  
QY 301 PNWCDDILWLAWLREYIPTNSTCCGRCHAPMWRGRYLVEVDQASFOCSAPFIMDAPR 360  
Db 301 PNWCDDILWLAWLREYIPTNSTCCGRCHAPMWRGRYLVEVDQASFOCSAPFIMDAPR 360  
QY 361 DLNISEGRMAELKCRTPPMSSVKMLLPNGTVLSHARHPRISVLNDGTLPNFSVLLSDTG 420  
Db 361 DLNISEGRMAELKCRTPPMSSVKMLLPNGTVLSHARHPRISVLNDGTLPNFSVLLSDTG 420  
QY 421 VTCWTVNAGNSNASAYLVNSTAEINTSNYSFFTIVTVEITEISPEDTRKYPVPTTS 480  
Db 421 VTCWTVNAGNSNASAYLVNSTAEINTSNYSFFTIVTVEITEISPEDTRKYPVPTTS 480  
QY 481 TCYQPAYTTSTFVLITQTRVPKQVAVPATDTTDXQVTSLEDEVMKTKIIIGCFVAVTLLA 540  
Db 481 TCYQPAYTTSTFVLITQTRVPKQVAVPATDTTDXQVTSLEDEVMKTKIIIGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQORSTVTAARTVEIIQVDEDI PAATSAATAAASGVSGEGAVLPT 600  
Db 541 AAMLIVFYKLRKHQORSTVTAARTVEIIQVDEDI PAATSAATAAASGVSGEGAVLPT 600  
QY 601 IHDHINYNTYKPAHGAHWTENSGLNSLHPTVTITSEPIYIIQTHTKDKVQETQI 653  
Db 601 IHDHINYNTYKPAHGAHWTENSGLNSLHPTVTITSEPIYIIQTHTKDKVQETQI 653

RESULT 18  
US-09-989-730-229  
; Sequence 229, Application US/09989730  
; Publication No. US20020197674A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tamas, Daniel  
; APPLICANT: Katanabe, Colin X.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin



TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
Acids Encoding the Same

FILE REFERENCE: P2730P1C69  
CURRENT APPLICATION NUMBER: US/09/989,730

PRIOR FILING DATE: 2001-11-20

PRIOR APPLICATION NUMBER: 60/049787

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/065186

PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065311

PRIOR FILING DATE: 1997-11-13

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 PRIOR APPLICATION NUMBER: 60/091633  
 PRIOR FILING DATE: 1998-07-02  
 PRIOR APPLICATION NUMBER: 60/091978  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 61 C T R E G L S E V P O G I P S N T R Y L N L M E N N I Q I A D T F R L H L E V L Q L G R N S I R Q I E V G A F N 120  
 61 C T R E G L S E V P O G I P S N T R Y L N L M E N N I Q I A D T F R L H L E V L Q L G R N S I R Q I E V G A F N 120  
 121 G L A S L N T L E L F D N W L T V P G A F E Y L S K R E L W L R N N P I E S T P S V A F N R V P S L A M P L D I G E 180  
 121 G L A S L N T L E L F D N W L T V P G A F E Y L S K R E L W L R N N P I E S T P S V A F N R V P S L A M P L D I G E 180  
 181 L K L E Y I S E G A F E G L F N K Y L N L G M C N I K M P N L T P L V G L E L E M S G N H F F E I R P G S P H G 240  
 181 L K L E Y I S E G A F E G L F N K Y L N L G M C N I K M P N L T P L V G L E L E M S G N H F F E I R P G S P H G 240  
 241 L S S L K L W A N S Q V S L I E R N A F D G L A S L V E L M A H N L S S L P H D L F T P L R Y L V E L H L H N 300  
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 301 P W N C D C I L W A W L R E Y I P T N S T C C G R C H A P W H R G R Y L V E V D O A S F Q C S A P F T M D A P R 360  
 361 D L N I S E G M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420  
 361 D L N I S E G M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P R I S V L N D G T L N F S H V L L S D T G 420  
 421 V Y T C M W T N V A G N S A Y L N V S T A B L N T N S F F T V T V E T T E I S P E D T T R K Y K P V P T T S 480  
 421 V Y T C M W T N V A G N S A Y L N V S T A B L N T N S F F T V T V E T T E I S P E D T T R K Y K P V P T T S 480  
 481 T G Q P A T T S T T V L I Q T R V P K V A P A T T D T D K Q T S L D E V M K T K I I I G C F V A V T L L A 540  
 481 T G Q P A T T S T T V L I Q T R V P K V A P A T T D T D K Q T S L D E V M K T K I I I G C F V A V T L L A 540  
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 541 A A M L I F Y K L R K H Q R S T V T A A R T V E I I Q V E D I P A A T S A A T A A P S G V S G E A V L P T 600  
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Db 601 I H D H I N Y N T Y K P A G A H W T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q E T Q I 653  
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 US-09-990-436-229  
 ; Sequence 229, Application US/09990436  
 ; Publication No. US20020198148A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashtkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Baton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Pong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; FILE REFERENCE: P2730P1C14  
 ; CURRENT APPLICATION NUMBER: US/09/990,436  
 ; CURRENT FILING DATE: 2001-11-14  
 ; PRIOR APPLICATION NUMBER: 60/049787  
 ; PRIOR FILING DATE: 1997-06-16  
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8 PRIOR APPLICATION NUMBER: 60/088326  
9 PRIOR FILING DATE: 1998-06-04  
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73 PRIOR FILING DATE: 1998-06-22

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56 PRIOR FILING DATE: 1998-07-07  
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58 PRIOR FILING DATE: 1998-07-07  
59 PRIOR APPLICATION NUMBER: 60/092182  
60 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MKLLMQVTVHHHTWNAILLPFVYLTQAQWILCAIAAASAGPQNCPSVCSNQSFKV 60  
Qy 61 CTRRGLSEVPGQIPSNTRYLNMENNIQMIQADTFRHLHLVLEVLQGRNSIRQIEVGAFN 120  
Db 61 CTRRGLSEVPGQIPSNTRYLNMENNIQMIQADTFRHLHLVLEVLQGRNSIRQIEVGAFN 120

121 GLASLNTLEIFDNLWLTVPISGAFEYLSKRLWLRNPNIESIPSAFNRVPSLMDLDLGE 180  
121 GLASLNTLEIFDNLWLTVPISGAFEYLSKRLWLRNPNIESIPSAFNRVPSLMDLDLGE 180  
181 LKLEIYISGAFGLFNKLVNLGMCNIDKMPNLTPLVGLBLEMSGNHFPPIRPGSFHG 240  
181 LKLEIYISGAFGLFNKLVNLGMCNIDKMPNLTPLVGLBLEMSGNHFPPIRPGSFHG 240  
241 LSSIKLWNNVSOVSUERIAPDGLASVELNLAHNNLSLSDHDLFTPLRYLVELHLHN 300  
241 LSSIKLWNNVSOVSUERIAPDGLASVELNLAHNNLSLSDHDLFTPLRYLVELHLHN 300  
301 PWCDDCILWMLWREYIPTNCTCCGRCHAPMHMGRLVVEVDQASFOCSAPFMDAPR 360  
301 PWCDDCILWMLWREYIPTNCTCCGRCHAPMHMGRLVVEVDQASFOCSAPFMDAPR 360  
361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTIVLSHRSRHPRIISVINDGTINFHVLSDTG 420  
361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTIVLSHRSRHPRIISVINDGTINFHVLSDTG 420  
421 VYTCMTWTVNAGNSNAYLNVSFAELNTSNYSFTTFTVTTVEITEISPEDTRKYKVPPTS 480  
421 VYTCMTWTVNAGNSNAYLNVSFAELNTSNYSFTTFTVTTVEITEISPEDTRKYKVPPTS 480  
481 TGYQPAYTSTTVLIQTRVPKQVAVPATDITDDKQTSDEVMKTKIILGCFVAVTLLA 540  
481 TGYQPAYTSTTVLIQTRVPKQVAVPATDITDDKQTSDEVMKTKIILGCFVAVTLLA 540  
541 AMLIVFYKLRKHQRSTVTAARTVEIIOVEDIPAAATSAATAAPSGVSEGANVLP 600  
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601 IHDHINYNTKPAHGAHWNTSNGSLHPTVTTSIPYIIQHTKDKVQSTOI 653  
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## RESULT 20

S-09-993-687-229

Sequence 229, Application US/09993687

Publication No. US20020198149A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tamas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C11  
CURRENT APPLICATION NUMBER: US/09/993,687  
CURRENT FILING DATE: 2002-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16

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15 PRIOR APPLICATION NUMBER: 60/091978  
16 PRIOR FILING DATE: 1998-07-07  
17 PRIOR APPLICATION NUMBER: 60/091982  
18 PRIOR FILING DATE: 1998-07-07  
19 PRIOR APPLICATION NUMBER: 60/092182  
20 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 10; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 61 CTRRGLSEVPQGISNTRYLNMENNIOQADTFRLHLEVLQICRNSIROIEVCAFN 120  
QY 121 GLASINTLELFDNMLTWIPSGAFYLSKLRELNMNPIESIPSYAFNRVPSLNRDLGE 180  
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QY 181 LKLEYISEGAFEGFLPNKYNLCMCNIKDMPNLTPLVGLBEELEMSGNHPPRPSFHG 240  
DB 181 LKLEYISEGAFEGFLPNKYNLCMCNIKDMPNLTPLVGLBEELEMSGNHPPRPSFHG 240  
QY 241 LSLKLLVWMSQVSLIERNAPDGLASLVELNLNHNLSLPHDLPTPLRYLVELHLHN 300  
DB 241 LSLKLLVWMSQVSLIERNAPDGLASLVELNLNHNLSLPHDLPTPLRYLVELHLHN 300  
QY 301 PWCDCDILLNLAWLREYIPTNSTCCGRCHAPMHRGRYLVVDQASFOCSAPFMDAPR 360  
DB 301 PWCDCDILLNLAWLREYIPTNSTCCGRCHAPMHRGRYLVVDQASFOCSAPFMDAPR 360  
QY 361 DNISEGRMAELKCRTPMSSVKWLLPENGTVLSHASHPRISVLNDGTNFSVLLSDTG 420  
DB 361 DNISEGRMAELKCRTPMSSVKWLLPENGTVLSHASHPRISVLNDGTNFSVLLSDTG 420  
QY 421 VYTCWTVNAGNSNASAYLNVSTAELNLSNYSFPTTVVETTEISPEDTTRKYKPVPTTS 480  
DB 421 VYTCWTVNAGNSNASAYLNVSTAELNLSNYSFPTTVVETTEISPEDTTRKYKPVPTTS 480  
QY 481 TGYQPAVTTSTTVLIQTRVPKQVAPATDTTKMGTSLEDEVMKTKIIGCFVAVTLA 540  
DB 481 TGYQPAVTTSTTVLIQTRVPKQVAPATDTTKMGTSLEDEVMKTKIIGCFVAVTLA 540  
QY 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIIPAATAAATAAPSGVSGEAVLPT 600  
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QY 601 IHDHINYNTYKPAHGAHWHTENSLGNSLHPTVTIISPEYIIQHTKDKVQETQI 653  
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RESULT 21  
US-09-989-734-229  
; Sequence 229, Application US/09989734

Publication No. US20030003531A1

GENERAL INFORMATION:

APPLICANT: Asikhenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
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APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: P2730F1C64

CURRENT APPLICATION NUMBER: US/09/989, 734

CURRENT FILING DATE: 2001-11-19

PRIOR APPLICATION NUMBER: 60/049787

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PRIOR FILING DATE: 1998-06-17  
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PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090355  
PRIOR FILING DATE: 1998-06-23  
PRIOR APPLICATION NUMBER: 60/090429

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4	PRIOR APPLICATION NUMBER: 60/090435	
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7	PRIOR FILING DATE: 1998-06-24	
8	PRIOR APPLICATION NUMBER: 60/090445	
9	PRIOR FILING DATE: 1998-06-24	
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29	PRIOR FILING DATE: 1998-06-26	
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36	PRIOR APPLICATION NUMBER: 60/091544	
37	PRIOR FILING DATE: 1998-07-01	
38	PRIOR APPLICATION NUMBER: 60/091519	
39	PRIOR FILING DATE: 1998-07-02	
40	PRIOR APPLICATION NUMBER: 60/091626	
41	PRIOR FILING DATE: 1998-07-02	
42	PRIOR APPLICATION NUMBER: 60/091633	
43	PRIOR FILING DATE: 1998-07-02	
44	PRIOR APPLICATION NUMBER: 60/091578	
45	PRIOR FILING DATE: 1998-07-07	
46	PRIOR APPLICATION NUMBER: 60/091982	
47	PRIOR FILING DATE: 1998-07-07	
48	PRIOR APPLICATION NUMBER: 60/092182	
49	PRIOR FILING DATE: 1998-07-09	

QY	241	LSS	KLW	WMS	QSV	S	L	I	E	R	N	A	F	O	G	L	A	S	I	V	E	L	N	A	H	N	L	S	S	L	P	H	I	F	T	P	L	R	Y	V	E	L	H	L	H	N	300											
Db	241	LSS	KLW	WMS	QSV	S	L	I	E	R	N	A	F	O	G	L	A	S	I	V	E	L	N	A	H	N	L	S	S	L	P	H	I	F	T	P	L	R	Y	V	E	L	H	L	H	N	300											
QY	301	PW	N	C	D	I	L	A	W	L	R	E	Y	I	P	T	N	S	C	C	G	R	C	H	A	P	M	H	E	G	R	Y	L	V	E	D	Q	A	S	F	O	C	S	A	P	F	I	M	D	A	P	R	360					
Db	301	PW	N	C	D	I	L	A	W	L	R	E	Y	I	P	T	N	S	C	C	G	R	C	H	A	P	M	H	E	G	R	Y	L	V	E	D	Q	A	S	F	O	C	S	A	P	F	I	M	D	A	P	R	360					
QY	361	D	L	I	N	T	S	E	G	M	A	E	L	K	R	T	P	P	M	S	V	K	L	P	N	G	T	V	L	S	H	A	S	R	H	P	R	I	S	V	L	N	D	G	T	L	N	F	S	H	V	L	L	S	D	T	G	420
Db	361	D	L	I	N	T	S	E	G	M	A	E	L	K	R	T	P	P	M	S	V	K	L	P	N	G	T	V	L	S	H	A	S	R	H	P	R	I	S	V	L	N	D	G	T	L	N	F	S	H	V	L	L	S	D	T	G	420
QY	421	V	T	C	M	V	T	N	V	A	G	N	S	A	S	A	L	N	S	N	S	F	T	I	V	T	T	E	I	S	P	E	D	T	T	R	K	Y	K	P	V	P	T	S	480													
Db	421	V	T	C	M	V	T	N	V	A	G	N	S	A	S	A	L	N	S	N	S	F	T	I	V	T	T	E	I	S	P	E	D	T	T	R	K	Y	K	P	V	P	T	S	480													
QY	481	T	G	Y	P	A	T	T	S	T	T	V	I	I	O	T	T	R	V	P	K	Q	V	A	P	A	T	T	D	T	K	M	O	T	S	L	D	E	W	M	K	T	K	I	I	I	G	C	F	A	V	A	T	L	L	A	540	
Db	481	T	G	Y	P	A	T	T	S	T	T	V	I	I	O	T	T	R	V	P	K	Q	V	A	P	A	T	T	D	T	K	M	O	T	S	L	D	E	W	M	K	T	K	I	I	I	G	C	F	A	V	A	T	L	L	A	540	
QY	541	A	M	L	I	V	F	K	L	R	K	H	O	Q	R	S	T	T	A	A	R	T	V	E	I	I	O	V	D	B	E	I	P	A	A	T	S	A	A	T	A	P	S	G	V	S	E	G	A	V	L	P	T	600				
Db	541	A	M	L	I	V	F	K	L	R	K	H	O	Q	R	S	T	T	A	A	R	T	V	E	I	I	O	V	D	B	E	I	P	A	A	T	S	A	A	T	A	P	S	G	V	S	E	G	A	V	L	P	T	600				
QY	601	I	H	D	H	I	N	Y	N	T	Y	K	P	A	H	G	A	H	W	T	E	N	S	L	G	N	S	L	H	P	T	T	T	I	S	E	P	I	I	O	T	H	K	O	K	O	V	E	T	I	653							
Db	601	I	H	D	H	I	N	Y	N	T	Y	K	P	A	H	G	A	H	W	T	E	N	S	L	G	N	S	L	H	P	T	T	T	I	S	E	P	I	I	O	T	H	K	O	K	O	V	E	T	I	653							

RESULT 22  
US-09-997-653-229  
Sequence 229, Application US/09997653  
Publication No. US2003008297A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730PIC38  
CURRENT APPLICATION NUMBER: US/09/997,653  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-15  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
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PRIOR APPLICATION NUMBER:	60/089353
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PRIOR FILING DATE:	1998-07-02
PRIOR APPLICATION NUMBER:	60/091544



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9	PRIOR FILING DATE:	1998-07-07
10	PRIOR APPLICATION NUMBER:	60/091982
11	PRIOR FILING DATE:	1998-07-07
12	PRIOR APPLICATION NUMBER:	60/092192
13	PRIOR FILING DATE:	1998-07-09

Query Match	100.0%;	Score 653;	DB 11;	Length 653;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 653: Conservative	0;	Mismatches	0;	Indels
			0;	Gaps
				0;

[illegible]

RESULT 23  
US-09-993-667-229  
; Sequence 229, Application US/09993667  
; Publication No. US2003022187A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.

		Query Match	100.0%; Score 653; DB 11; Length 653;
		Best Local Similarity 100.0%; Pred. No. 0;	
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;	PRIOR FILING DATE: 1998-07-07		
;	PRIOR APPLICATION NUMBER: 60/091982		
;	PRIOR FILING DATE: 1998-07-07		
;	PRIOR APPLICATION NUMBER: 60/092182		
;	PRIOR FILING DATE: 1998-07-09		
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DB	1 MKLLQVTVVHHTWNAILLPPVYLTAQWILCAIAAAASAGPQNCPSVCSCSNQFSKV 60		
QY	61 CTRGLSVPOGISNTRYLNLAMENNTOIQAOTFFHLHLHLVQLGRNSIROIEVGAEN 120		
DB	61 CTRGLSVPOGISNTRYLNLAMENNTOIQAOTFFHLHLHLVQLGRNSIROIEVGAEN 120		
QY	121 GLASLNTLELFDNWLTWIPSGAFYLSKLRMLRNNPIESIPSYAFNRVPSLMRLDLGE 180		
DB	121 GLASLNTLELFDNWLTWIPSGAFYLSKLRMLRNNPIESIPSYAFNRVPSLMRLDLGE 180		
QY	181 LKLUYTSSEGAFGELFNLYLNGMCNIKOMPMLTPLVGLLEEMSGNHPPETRPGSFHG 240		
DB	181 LKLUYTSSEGAFGELFNLYLNGMCNIKOMPMLTPLVGLLEEMSGNHPPETRPGSFHG 240		
QY	241 LSSLKULWVMSQVSLTERNAFDGLASLVELNLAHNLSLPHDLTTPRLYLVELHLHN 300		
DB	241 LSSLKULWVMSQVSLTERNAFDGLASLVELNLAHNLSLPHDLTTPRLYLVELHLHN 300		
QY	301 PWCDCDILMLAWLREYIPTNSTCCGRCHAPMEGRVIVEYDQASFOCSAPFIMDAPR 360		

Db 301 PNWCDDILWLAWNLREVIPTNSTCCGRCHAPMGRGYLVEVDQASQCSAPFMDAPR 360  
QY 361 DLNISEGRMAELKCTPMPSSVKLLPNGTFLSHASRHPRI SVLNDGTLNFSHVLLSDTG 420  
Db 361 DLNISEGRMAELKCTPMPSSVKLLPNGTFLSHASRHPRI SVLNDGTLNFSHVLLSDTG 420  
QY 421 VTCMVTVNAGNSNASAYLNSTAEINTSNYSFFTTVTETETISPEDTTRKYPVPTTS 480  
Db 421 VTCMVTVNAGNSNASAYLNSTAEINTSNYSFFTTVTETETISPEDTTRKYPVPTTS 480  
QY 481 TGYQPAYTSTTVLQTRVPKQAVPATDTTDKNQSLDEVMKTKLIIIGCFVAVTLLA 540  
Db 481 TGYQPAYTSTTVLQTRVPKQAVPATDTTDKNQSLDEVMKTKLIIIGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDI PAATSAATAAPSGVSGEGAVVLP 600  
Db 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDI PAATSAATAAPSGVSGEGAVVLP 600  
QY 601 IHDHINYNTPKPAHGAHNTENSLGNSLHPTVTITISEPVIITHTKDKVQETQI 653  
Db 601 IHDHINYNTPKPAHGAHNTENSLGNSLHPTVTITISEPVIITHTKDKVQETQI 653

## RESULT 24

US-09-997-428-229  
; Sequence 229 Application US/09997428  
; Publication No. US20030027162A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kijavini, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730PIC44  
; CURRENT APPLICATION NUMBER: US/09/997,428  
; CURRENT FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
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; PRIOR FILING DATE: 1998-02-25  
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; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: 60/083322  
; PRIOR FILING DATE: 1998-04-28

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; PRIOR FILING DATE: 1998-06-17
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; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02

; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 M K L L Q V T V H H T W N A I L L P F V I L T A Q V I L C A A I A A A S A G P O N C P S V C S C N Q S K V V 60
D b [11]
QY 61 C T R R G L S E V P Q G I P S N T R Y L N L M E N N I Q M I Q A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120
D b [11]
QY 121 G L A S I N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L R N N P I E S I P S Y A F N R V P S L M R L D L G E 180
D b [11]
QY 181 L K L E Y I S E G A F E G L F N L K Y L N L G M N I K M P N L T P L V G L E E L E M S G N H P P E I R P G S F H G 240
D b [11]
QY 241 L S S L K L W M N S Q V S L I E R N A F D G L A S L V E L N L A H N S L P H D L F T P U R Y L V E L H L H N 300
D b [11]
QY 301 P W N C D C I L M L A W L R E Y I P T N S T C C G R C H A P M H M G R Y L V E V D Q A S F O C S A P P I N D A P R 360
D b [11]
QY 361 D L N I S E G R M A E L K R T P P M S S V K W L L P N G T V L S H A S H P R I S V L N D G T L N F S H V L S D T G 420
QY 421 V Y T C M V T N V A G N S N A S A Y L N V S T A E L N T S N Y S P F T V T V T E T T I S P E D T T R K Y K P V P T S 480
D b [11]
QY 481 T G Q P A Y T T S T T V L I Q T T R V P K Q V A P A D T T D K M O T S L D E V M K T K I I I G C F V A V T L I A 540
D b [11]
QY 541 A A M L I V F Y K L R K H Q O R S T V T A A R T V S I I Q V D E D I P A A T S A A T A P S G V S G E G A V L P T 600
D b [11]
QY 601 I H D H I N Y N T Y K P A H G A R H T E N S L G N S L H P T V T T I S E P Y I I Q T H T K D K V Q T Q I 653
D b [11]

RESULT 25

US-09-997-666-229
; Sequence 229, Application US/09997666
; Publication No. US20030027163A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Saton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.  
APPLICANT: Kijavini, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C42  
CURRENT APPLICATION NUMBER: US/09/997,666  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
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PRIOR APPLICATION NUMBER: 60/090540

Query Match 100.0%; Score 653; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
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Y 1 MLLQVTHHTWNAILLPVYLTQVWILCAIAAASAGPQNCPSVCSCNQSKV 60  
b 1 MLLQVTHHTWNAILLPVYLTQVWILCAIAAASAGPQNCPSVCSCNQSKV 60

Y 61 CTRGLSEVPQIPSNTRYLNLMENNIQMIQADTFRLHLEVLQGRNSIRQIEVGA 120  
b 61 CTRGLSEVPQIPSNTRYLNLMENNIQMIQADTFRLHLEVLQGRNSIRQIEVGA 120

Y 121 GLASNTLEFDNWLTVIPSGAFYLSKLRLNPNPIESIPSYAFNRPVPSLMRLDLGE 180  
b 121 GLASNTLEFDNWLTVIPSGAFYLSKLRLNPNPIESIPSYAFNRPVPSLMRLDLGE 180

Y 181 LKLEVISSEGAFLFKLYLNLGMNCIKDMPNLTPLVGLLELMGNSHFFPEIRPGSRHG 240  
b 181 LKLEVISSEGAFLFKLYLNLGMNCIKDMPNLTPLVGLLELMGNSHFFPEIRPGSRHG 240

Y 241 LSLKLLWVNSQVSLIERNAPGLASLVELNAHNLSSLPHDLFTPLRYLVELLHSHN 300  
b 241 LSLKLLWVNSQVSLIERNAPGLASLVELNAHNLSSLPHDLFTPLRYLVELLHSHN 300

Y 301 PNCDCDILMLAWLREYIPTNCTCCGRCHAPMHEGRYLVEDQASFOCSAPFTMDAPR 360  
b 301 PNCDCDILMLAWLREYIPTNCTCCGRCHAPMHEGRYLVEDQASFOCSAPFTMDAPR 360

Y 361 DLNISGRMAELKCRTPPNSVAKLLPNGTVLSHSHRHPRI SVLNDGTLNFSHLLSDTG 420  
b 361 DLNISGRMAELKCRTPPNSVAKLLPNGTVLSHSHRHPRI SVLNDGTLNFSHLLSDTG 420

Y 421 VYTCMTNVAGNSASAYLNSTABLNTSNYSFFTVTVTEISPEDTRKYPVPTTS 480

Db 421 VYTCMTNVAGNSASAYLNSTABLNTSNYSFFTVTVTEISPEDTRKYPVPTTS 480  
Qy 481 TGYQPAYTSTTVLIQTTVRPKQVAVPATDITDKQOTSLDEVMKTKIIIGCFVAVTLLA 540  
Db 481 TGYQPAYTSTTVLIQTTVRPKQVAVPATDITDKQOTSLDEVMKTKIIIGCFVAVTLLA 540  
Qy 541 AAMLVFPYKLRKHQORSTVTAARTVEIIQVDEDIPAAATSAATAAPSGVSGEAVLPT 600  
Db 541 AAMLVFPYKLRKHQORSTVTAARTVEIIQVDEDIPAAATSAATAAPSGVSGEAVLPT 600  
Qy 601 ISDHINYNITKPAHGAHWNTENSLGNSLHPTVTITISEPVYIIOTHKKQVQETQI 653  
Db 601 ISDHINYNITKPAHGAHWNTENSLGNSLHPTVTITISEPVYIIOTHKKQVQETQI 653

## RESULT 26

US-09-990-438-229  
; Sequence 229, Application US/09990438  
; Publication No. US20030027754A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Baton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
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; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730P1C3  
; CURRENT APPLICATION NUMBER: US/09/990,438  
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138 PRIOR APPLICATION NUMBER: 60/091633  
139 PRIOR FILING DATE: 1998-07-02  
140 PRIOR APPLICATION NUMBER: 60/091978  
141 PRIOR FILING DATE: 1998-07-07  
142 PRIOR APPLICATION NUMBER: 60/091982  
143 PRIOR FILING DATE: 1998-07-07  
144 PRIOR APPLICATION NUMBER: 60/092182  
145 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 553; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MLLQVTHHTWNAILLFVYLTAAQWILCAIAAASAGPQNCPSVCSNQSKYV 60  
1 MLLQVTHHTWNAILLFVYLTAAQWILCAIAAASAGPQNCPSVCSNQSKYV 60

61 CTRGLSEVPGIPSNTRYINLMENN:OMIQADTFRLHHLVQLGRNSIRIEVGAFN 120  
61 CTRGLSEVPGIPSNTRYINLMENN:OMIQADTFRLHHLVQLGRNSIRIEVGAFN 120

121 GLASLNTLELFDNWLTVIPSGAFYLSKLSBELMLRNPIESIPSYAFNRPVSLMRDLGE 180  
121 GLASLNTLELFDNWLTVIPSGAFYLSKLSBELMLRNPIESIPSYAFNRPVSLMRDLGE 180

181 LKLEVISSEGAPEGLFWLKYLNLMGNKIMPNLTPLVGLLELMSGNHFFPIRPGSFHG 240  
181 LKLEVISSEGAPEGLFWLKYLNLMGNKIMPNLTPLVGLLELMSGNHFFPIRPGSFHG 240

241 LSSLLKLVWVNSQVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300  
241 LSSLLKLVWVNSQVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300

301 PWCDCDILMLAWLREYIPTNSTCCGRCHAPNMRGRYLVEVDQASFOCSAPFIMDAFR 360  
301 PWCDCDILMLAWLREYIPTNSTCCGRCHAPNMRGRYLVEVDQASFOCSAPFIMDAFR 360

361 DLNISGRMAELKCRTPPMSSVKMLLPNGVTLVSHASRHPRI SVLNDGTINFSHVLLSDTG 420  
361 DLNISGRMAELKCRTPPMSSVKMLLPNGVTLVSHASRHPRI SVLNDGTINFSHVLLSDTG 420

421 VTCMTVNAAGNSNAGLAYLNVSTAEINTSNYSFTTIVTETTESPEDTRKYKVPVPTS 480  
421 VTCMTVNAAGNSNAGLAYLNVSTAEINTSNYSFTTIVTETTESPEDTRKYKVPVPTS 480

481 TGQCPAYTSTTVLIQTRVPKQVAVPADTDDKMTSLDENVKTKIIGCFVAVTLLA 540  
481 TGQCPAYTSTTVLIQTRVPKQVAVPADTDDKMTSLDENVKTKIIGCFVAVTLLA 540

541 AAMLVFKLKRKHQRSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEAVLPT 600  
541 AAMLVFKLKRKHQRSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEAVLPT 600

601 IHDHINVTYKPAHGAHWNTENSLGNSLHPTVTIISSEFYIIQHTTKDKVQETQI 653  
601 IHDHINVTYKPAHGAHWNTENSLGNSLHPTVTIISSEFYIIQHTTKDKVQETQI 653

## RESULT 27

S-09-990-562-229

Sequence 229, Application US/09990562

Publication No. US20030027985A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kljavin, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel  
APPLICANT: Katanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C18  
CURRENT APPLICATION NUMBER: US/09/990,562  
CURRENT FILING DATE: 2001-11-14  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
PRIOR APPLICATION NUMBER: 60/065311  
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 ; PRIOR APPLICATION NUMBER: 60/091978  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/091982  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/092182  
 ; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLMQVTVHHHTWNAIILPEVYLTQVWILCAIAAASAGPQNCPSVCSNQPFSKV 60  
 DB 1 MKLLMQVTVHHHTWNAIILPEVYLTQVWILCAIAAASAGPQNCPSVCSNQPFSKV 60  
 QY 61 CTRGLSEVPQGPISNTRYLNLMMENNIQMIQADTFRLHLLHLEVLQLRNSIRQIEVAFN 120  
 DB 61 CTRGLSEVPQGPISNTRYLNLMMENNIQMIQADTFRLHLLHLEVLQLRNSIRQIEVAFN 120  
 QY 121 GLASLNTLELFDNMETVTPSGAPEYLSKRLRELWLNPNIPISIPSYAFNRPVPSLMLDLGE 180  
 DB 121 GLASLNTLELFDNMETVTPSGAPEYLSKRLRELWLNPNIPISIPSYAFNRPVPSLMLDLGE 180  
 QY 181 LKKLEYISSEGAFEGFLNLYLNLGMCNIKDMPNLTPLVGLLEEMSGNHPPFIRPGSFHG 240  
 DB 181 LKKLEYISSEGAFEGFLNLYLNLGMCNIKDMPNLTPLVGLLEEMSGNHPPFIRPGSFHG 240  
 QY 241 LSSLKLLWVNSQVSLTERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLLHN 300  
 DB 241 LSSLKLLWVNSQVSLTERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLLHN 300  
 QY 301 PWNCCDILWLAWLREYIPNNTCCGCHAPMEMRCRYLVEVDQASFOCSAPPFMDAPR 360  
 DB 301 PWNCCDILWLAWLREYIPNNTCCGCHAPMEMRCRYLVEVDQASFOCSAPPFMDAPR 360  
 QY 361 DLNISSEGRMAELKCRTPPMSSVKVLLPNGTVLSASRHPRIISVNDGTLPNSHVLLSDTG 420  
 DB 361 DLNISSEGRMAELKCRTPPMSSVKVLLPNGTVLSASRHPRIISVNDGTLPNSHVLLSDTG 420  
 QY 421 VYTCMTVNVAGNSASAYLVNSTAELNLSYSPFTTVTETTRISPDTRTKYKVPVPTTS 480  
 DB 421 VYTCMTVNVAGNSASAYLVNSTAELNLSYSPFTTVTETTRISPDTRTKYKVPVPTTS 480  
 QY 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDTTDKQKQSLDEVMKTKIIICCFVAVTLLA 540  
 DB 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDTTDKQKQSLDEVMKTKIIICCFVAVTLLA 540

541 AAMLIIVYKLRKHQORSTVTAARTVEIIQVDRDIPAAATSAATAAPSGVSGEAVVLP 600  
541 AAMLIIVYKLRKHQORSTVTAARTVEIIQVDRDIPAAATSAATAAPSGVSGEAVVLP 600  
601 IHDHINTVTKPAHGAHWENSLNSLHPTVTITISPPYIIQHTHKDKVOETQI 653  
601 IHDHINTVTKPAHGAHWENSLNSLHPTVTITISPPYIIQHTHKDKVOETQI 653

## RESULT 28

US-09-990-711-229

Sequence 229, Application US/09990711

Publication No US2003003202A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrari, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Kijavini, Ivar J.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Watanabe, Colin K.

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

Acids Encoding the Same

FILE REFERENCE: P2730P1C2

CURRENT FILING DATE: 2001-11-14

PRIOR APPLICATION NUMBER: US/09/990,711

PRIOR FILING DATE: 1997-06-16

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/065186

PRIOR FILING DATE: 1997-11-12

PRIOR APPLICATION NUMBER: 60/065311

PRIOR FILING DATE: 1997-11-13

PRIOR APPLICATION NUMBER: 60/066770

PRIOR FILING DATE: 1997-11-24

PRIOR APPLICATION NUMBER: 60/075945

PRIOR FILING DATE: 1998-02-25

PRIOR APPLICATION NUMBER: 60/078910

PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: 60/083322

PRIOR FILING DATE: 1998-04-28

PRIOR APPLICATION NUMBER: 60/084600

PRIOR FILING DATE: 1998-05-07

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PRIOR FILING DATE: 1998-05-28

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PRIOR FILING DATE: 1998-06-02

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Prior Filing Date: 1998-06-19  
Prior Application Number: 60/090246  
Prior Filing Date: 1998-06-22  
Prior Application Number: 60/090252  
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Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091978  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/091982  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/092182  
Prior Filing Date: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MLLQVTVVHHHTWAILLPFVYVTAQVWILCAATAAASAGPQNCPSVCSCSNQFSKVW 60  
Db 1 MLLQVTVVHHHTWAILLPFVYVTAQVWILCAATAAASAGPQNCPSVCSCSNQFSKVW 60

Qy 61 CTRRLSEVPQGIIPSNTRYLNMENNIQIQAOTFRHLHLEVLQLGNSIROIEVGAFN 120  
Db 61 CTRRLSEVPQGIIPSNTRYLNMENNIQIQAOTFRHLHLEVLQLGNSIROIEVGAFN 120  
Qy 121 GLASLNTLELFDNMLTVPSCAFYLSKLRELWLRNNPIESIPSYAFNRVPSLMRLDLGE 180  
Db 121 GLASLNTLELFDNMLTVPSCAFYLSKLRELWLRNNPIESIPSYAFNRVPSLMRLDLGE 180  
Qy 181 LKLEIYISGAPEGLFNLKYLNLGKCNIKOMPNTPLVGLLEELMSGNHHPETRPQSPHG 240  
Db 181 LKLEIYISGAPEGLFNLKYLNLGKCNIKOMPNTPLVGLLEELMSGNHHPETRPQSPHG 240  
Qy 241 LSSLKLWYMSQVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300  
Db 241 LSSLKLWYMSQVSLIERNAFDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300  
Qy 301 PWCDCDILWLAWLRLBYIPTNSTCCGRCHAPMGRGYLVEVDQASFQCSAPFMDAPR 360  
Db 301 PWCDCDILWLAWLRLBYIPTNSTCCGRCHAPMGRGYLVEVDQASFQCSAPFMDAPR 360  
Qy 361 DNIISGRMAELKCRTPMSSVKMLLPNGTVLSHSHRPRISVLNDGTLPNSHVLSDTG 420  
Db 361 DNIISGRMAELKCRTPMSSVKMLLPNGTVLSHSHRPRISVLNDGTLPNSHVLSDTG 420  
Qy 421 VYTCMVTNVAGNSNASAYLNVSTALNTSNYSPTTPTVTETETESPEDTTRKYKPEVPTTS 480  
Db 421 VYTCMVTNVAGNSNASAYLNVSTALNTSNYSPTTPTVTETETESPEDTTRKYKPEVPTTS 480  
Qy 481 TGOYAPYTTSTVLQOTTRVPKQAVAPATDITDKMOTSLDEVMKTKLIIGCFVAVTLA 540  
Db 481 TGOYAPYTTSTVLQOTTRVPKQAVAPATDITDKMOTSLDEVMKTKLIIGCFVAVTLA 540  
Qy 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIPATSAATAAPSGVSGEAVVLP 600  
Db 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEIPATSAATAAPSGVSGEAVVLP 600  
Qy 601 IIDHINNTYKPAHGAHWTENSLNSLHPTVTITISEPYIIOTHTKQVQETQI 653  
Db 601 IIDHINNTYKPAHGAHWTENSLNSLHPTVTITISEPYIIOTHTKQVQETQI 653

RESULT 29

US-09-989-726-229  
Sequence 229, Application US/09989726  
Publication No. US20030040473A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same

FILE REFERENCE: P2730P1C60  
CURRENT APPLICATION NUMBER: US/09/989,726  
PRIOR FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
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PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: 60/078910  
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PRIOR APPLICATION NUMBER: 60/083322  
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PRIOR APPLICATION NUMBER: 60/091633  
PRIOR FILING DATE: 1998-07-02  
PRIOR APPLICATION NUMBER: 60/091978  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/091982  
PRIOR FILING DATE: 1998-07-07  
PRIOR APPLICATION NUMBER: 60/092182  
PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MLLMQVTHHTWNAILPFVYLAOVHILCAAATAAASAGPQNCPSVCSCSNQPSKV 60  
DB 1 MLLMQVTHHTWNAILPFVYLAOVHILCAAATAAASAGPQNCPSVCSCSNQPSKV 60  
QY 61 CTRRGLSEVFGIPSNTRYNLNMENNIQVIQADTFRHLHLHLVQLGNSIRQIEVGA 120  
DB 61 CTRRGLSEVFGIPSNTRYNLNMENNIQVIQADTFRHLHLHLVQLGNSIRQIEVGA 120  
QY 121 GLASLNTLELFQNLTVTPSGAFYLSKLRLEWLNENNIESIPSYAFNRVPSLMRLDGE 180  
DB 121 GLASLNTLELFQNLTVTPSGAFYLSKLRLEWLNENNIESIPSYAFNRVPSLMRLDGE 180  
QY 181 LKLEVISGAEFGLFNKLYNLGNCNKKMPNLTPLVGLBELEMSGNHFPPIRPGSPHG 240  
DB 181 LKLEVISGAEFGLFNKLYNLGNCNKKMPNLTPLVGLBELEMSGNHFPPIRPGSPHG 240  
QY 241 LSLKXKLWYMNQSVLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300  
DB 241 LSLKXKLWYMNQSVLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300  
QY 301 PNCDCDILWLAWNLREYIPTNSTCCGRCHAPMHRGRLVVEVDQASFOCSAPIMDAPR 360  
DB 301 PNCDCDILWLAWNLREYIPTNSTCCGRCHAPMHRGRLVVEVDQASFOCSAPIMDAPR 360  
QY 361 DLNISEGRMAELKCRTPPMKSSVKMLLPNGTVLSEASRHPRIISVLDGTLNFSHVLLSDTG 420  
DB 361 DLNISEGRMAELKCRTPPMKSSVKMLLPNGTVLSEASRHPRIISVLDGTLNFSHVLLSDTG 420  
QY 421 VYTCMTNVAGNSASAYLNVSABLNSTNSYFPTTVTTEISPEDTTKRYKVPVPTS 480  
DB 421 VYTCMTNVAGNSASAYLNVSABLNSTNSYFPTTVTTEISPEDTTKRYKVPVPTS 480  
QY 481 TGYQPAYTTSVTLVQITRVKQVAVPATDTDKKQTSLSDEVMKTKIIIGCFVAVTLLA 540  
DB 481 TGYQPAYTTSVTLVQITRVKQVAVPATDTDKKQTSLSDEVMKTKIIIGCFVAVTLLA 540  
QY 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIPAAATSAATAAPSGVSGEGAVVLP 600  
DB 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDIPAAATSAATAAPSGVSGEGAVVLP 600  
QY 601 IDHNLNNTYKPAHGAHNTENSLGNSLHPTVTITSEPVIIQTHTKDKVQETQI 653  
DB 601 IDHNLNNTYKPAHGAHNTENSLGNSLHPTVTITSEPVIIQTHTKDKVQETQI 653

## RESULT 30

US-09-998-156-229  
; Sequence 229, Application US/09998156  
; Publication No. US20030044806A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730PIC28  
; CURRENT APPLICATION NUMBER: US/09/998.156  
; PRIOR FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-15  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/065186  
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; PRIOR FILING DATE: 1998-02-25  
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 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;

Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;  
 Matches 653; Conservative 0;

Qy 1 MKLLQVTVVHTWNAILFPVYLTAQVWLCAIAAASAGPQNCPSVCSCSNQFSKVY 60  
 Db 1 MKLLQVTVVHTWNAILFPVYLTAQVWLCAIAAASAGPQNCPSVCSCSNQFSKVY 60  
 Qy 61 CTREGISEVDPGIPSNTRYLNLMENNIQMIQADTFPHLHLEVLQGRNSIQIEVGAFN 120  
 Db 61 CTREGISEVDPGIPSNTRYLNLMENNIQMIQADTFPHLHLEVLQGRNSIQIEVGAFN 120  
 Qy 121 GLASLNTLELFDNWLTVIPSGAPEYLSKLRELWLRNNPTIESPSVAFNRVPSLMLDLGE 180

Db 121 GLASLNTLEFDNLWLTIPSGAFYLSKLRBLWLRNNPIESIPSYAFNRVPSLMRLDGE 180  
Qy 181 LKXLEYISECAPGLFNKYLNLNGVKNIKOMBNLPLVGLLELESGNHFPIRPGSHG 240  
Db 181 LKXLEYISECAPGLFNKYLNLNGVKNIKOMBNLPLVGLLELESGNHFPIRPGSHG 240  
Qy 241 LSSKLKLWVNSQVSLIERNAPDGLASIVELNLAHNLSLPHDLFTPLRYLVLELHNN 300  
Db 241 LSSKLKLWVNSQVSLIERNAPDGLASIVELNLAHNLSLPHDLFTPLRYLVLELHNN 300  
Qy 301 PWCDCDILWLANWREYIPTNSTCCGRCHAPWHRGRVLVVDQASQCSAPFTMDAPR 360  
Db 301 PWCDCDILWLANWREYIPTNSTCCGRCHAPWHRGRVLVVDQASQCSAPFTMDAPR 360  
Qy 361 DLNISGRVAELKCRTPPKSSVKWLLPNGTIVLSHSHRHPRI SVLNDGTLNFSHLLSDTG 420  
Db 361 DLNISGRVAELKCRTPPKSSVKWLLPNGTIVLSHSHRHPRI SVLNDGTLNFSHLLSDTG 420  
Qy 421 VYTCMTNVAGNSNAYLNVSTAEINTSNYSFFITVTEIISPEDTRKYKVPPTS 480  
Db 421 VYTCMTNVAGNSNAYLNVSTAEINTSNYSFFITVTEIISPEDTRKYKVPPTS 480  
Qy 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDITDKMOTSLDEVMKTKIIGCFVAVTLLA 540  
Db 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDITDKMOTSLDEVMKTKIIGCFVAVTLLA 540  
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Db 541 AAMLIVFYKLRKHQRSTVTAARTVEIIOVDDEIPAAATSAATAAPSGVSGEAVVLT 600  
Qy 601 IHDHINNTYKPAKGAHWNTENSLSHLPVTITISEPYIIQHTKDKVQETQI 653  
Db 601 IHDHINNTYKPAKGAHWNTENSLSHLPVTITISEPYIIQHTKDKVQETQI 653

## RESULT 31

US-09-990-437-229  
; Sequence 229, Application US/09990437  
; Publication No. US20030045463A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730P1C49  
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; CURRENT FILING DATE: 2001-11-16  
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 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 0;  
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 QY 61 CTGRGLSEVPQGIPISTRYNLNMENNIQMIQADTFPHLHLEVLQLGINSIRQIEVGAFN 120  
 DB 61 CTGRGLSEVPQGIPISTRYNLNMENNIQMIQADTFPHLHLEVLQLGINSIRQIEVGAFN 120  
 QY 121 GLASLNTLELFDNWLTVIPSGAPEYLSKLRWLNRNPIESIPSYAFNRVPSLMRLDLGE 180  
 DB 121 GLASLNTLELFDNWLTVIPSGAPEYLSKLRWLNRNPIESIPSYAFNRVPSLMRLDLGE 180  
 QY 181 LKXLEYISEGAFGLFNLYNLGMNKNIDMPLNLTPLVGLHLEMSGNHFPEIRPGSPHG 240  
 DB 181 LKXLEYISEGAFGLFNLYNLGMNKNIDMPLNLTPLVGLHLEMSGNHFPEIRPGSPHG 240  
 QY 241 LSSLLKLWVNSQVSLIERNAPDGLASLVEELAHNLSLPHDLFTPLRYLVELHLEN 300  
 DB 241 LSSLLKLWVNSQVSLIERNAPDGLASLVEELAHNLSLPHDLFTPLRYLVELHLEN 300  
 QY 301 PWNCDLILWLAWMLREYIPTNSTCCGRCHAPMHMRGRLVVEVDQASFOCSAPFINDAPR 360  
 DB 301 PWNCDLILWLAWMLREYIPTNSTCCGRCHAPMHMRGRLVVEVDQASFOCSAPFINDAPR 360  
 QY 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHARHPRI SVLNDGTLNFSHVLLSDTG 420  
 DB 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHARHPRI SVLNDGTLNFSHVLLSDTG 420  
 QY 421 VYTCMVTNVAGNSNASAYLNVSTAEINTSNYSFFTVTVVETTEISPEDTRRYKVPVPTS 480  
 DB 421 VYTCMVTNVAGNSNASAYLNVSTAEINTSNYSFFTVTVVETTEISPEDTRRYKVPVPTS 480  
 QY 481 TGYOPATTTSTTVLIOTTRVPKQVAPATDTDKMCTSLDEYKTKTKIIGCFVAVTLLA 540  
 DB 481 TGYOPATTTSTTVLIOTTRVPKQVAPATDTDKMCTSLDEYKTKTKIIGCFVAVTLLA 540  
 QY 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDI PAATSAATAAPSGVSGEAVLPT 600  
 DB 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDEDI PAATSAATAAPSGVSGEAVLPT 600  
 QY 601 IHDHINYNTYKPAHGAHWTENSLGNSLHPTVTITSEPIYIIOTHTKKVQETQI 653  
 DB 601 IHDHINYNTYKPAHGAHWTENSLGNSLHPTVTITSEPIYIIOTHTKKVQETQI 653

RESULT 32  
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 ; Sequence 229, Application US/09991157  
 ; Publication No. US20030049638A1  
 ; GENERAL INFORMATION:



APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P273091C51  
CURRENT APPLICATION NUMBER: US/09/991,157  
CURRENT FILING DATE: 2001-11-16  
PRIOR APPLICATION NUMBER: 60/049787  
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45 PRIOR FILING DATE: 1998-07-02  
46 PRIOR APPLICATION NUMBER: 60/091978  
47 PRIOR FILING DATE: 1998-07-07  
48 PRIOR APPLICATION NUMBER: 60/091982  
49 PRIOR FILING DATE: 1998-07-07  
50 PRIOR APPLICATION NUMBER: 60/092182  
51 PRIOR FILING DATE: 1998-07-09

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61 CTRGLSEVPGQIPSNRYLNLMMNNIOMIQADTFRLHLEVLQGRNSIQIEVGA 120  
61 CTRGLSEVPGQIPSNRYLNLMMNNIOMIQADTFRLHLEVLQGRNSIQIEVGA 120  
121 GLASLNTLELFDNWLTVIPSGAFEYLSKRELWLRNPNIESIPSYAFNRVPSLMELDLGE 180  
121 GLASLNTLELFDNWLTVIPSGAFEYLSKRELWLRNPNIESIPSYAFNRVPSLMELDLGE 180  
181 LKLEVISSEGAEGFLNKLNLGMNCKDMPNLTPLVGLLEELMSGNHPFPEIRCSFHG 240  
181 LKLEVISSEGAEGFLNKLNLGMNCKDMPNLTPLVGLLEELMSGNHPFPEIRCSFHG 240  
241 LSSLKLUWVNSQVSLIERNAFDGLASLVELNLAHNLSLPHDLFTPLRYLVELHLHN 300

Db 241 LSSLKLUWVNSQVSLIERNAFDGLASLVELNLAHNLSLPHDLFTPLRYLVELHLHN 300  
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Db 301 PWNCCDILWLAWLREVIPTNSTCCGRCHAPMRGRYLVEVDQASFOCSAPFMDAPR 360  
QY 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRPRISVLNDGTLNPSHVLSDTG 420  
Db 361 DLNISEGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRPRISVLNDGTLNPSHVLSDTG 420  
QY 421 VYTCMTVNVAGNSNASAYLNVSTAEIANTSNYSFETTVTTEISPEDTTRKYPVPTTS 480  
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Db 481 TCYQPAYTTSTVLIQTTRVPEKQVAVPATDTTDKQVTSLEWVKTKIIIGCFVAVTLLA 540  
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RESULT 33  
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Publication No. US20030049681A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
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APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1046  
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CURRENT FILING DATE: 2001-11-15  
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PRIOR APPLICATION NUMBER: 60/075945

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;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/091982  
;; PRIOR FILING DATE: 1998-07-07  
;; PRIOR APPLICATION NUMBER: 60/092182  
;; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLQVTVVHTHTWNAILLFPVYLTQWILCAIAAASAGPQNCPSVCSNQPSKVY 60  
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QY 61 CTRRGLSEVPOGIPENTRYLNLMMENNIQMIQADTFRLHLHLVLQGLRNSIRQIEVCAFN 120  
DB 61 CTRRGLSEVPOGIPENTRYLNLMMENNIQMIQADTFRLHLHLVLQGLRNSIRQIEVCAFN 120  
QY 121 GLASLNTLELFDNMLTVTPSGAFYVLSKRLRLNRNPIESIPSYAFNRVPSLMLDLGE 180  
DB 121 GLASLNTLELFDNMLTVTPSGAFYVLSKRLRLNRNPIESIPSYAFNRVPSLMLDLGE 180  
QY 181 LKLEYISSEGAFEGFNLYNLGMCNKKMPNLTPLVGLLEEMSGNHPSPSPGPHG 240  
DB 181 LKLEYISSEGAFEGFNLYNLGMCNKKMPNLTPLVGLLEEMSGNHPSPSPGPHG 240  
QY 241 LSSLKLVWNSQVSLIERNAFDGLASLVELNLAHNLSLPHDLFTPLRLVVELHLHN 300  
DB 241 LSSLKLVWNSQVSLIERNAFDGLASLVELNLAHNLSLPHDLFTPLRLVVELHLHN 300  
QY 301 PWCDCDILWLAWLREYIPNNTCCGCHAPMGRGYLVEVDQASFOCSAPFINDAPR 360  
DB 301 PWCDCDILWLAWLREYIPNNTCCGCHAPMGRGYLVEVDQASFOCSAPFINDAPR 360  
QY 361 DLNISGRMAELKCRTPPMSSVKWLLPNGTVLSHASHRPRISVLNDGTINFSHVLLSDTG 420  
DB 361 DLNISGRMAELKCRTPPMSSVKWLLPNGTVLSHASHRPRISVLNDGTINFSHVLLSDTG 420  
QY 421 VYTCWTVNAGNSASAYLVNSTAEMLNTSNYSFTTVEITTSIPEDTTRKYPVPTTS 480  
DB 421 VYTCWTVNAGNSASAYLVNSTAEMLNTSNYSFTTVEITTSIPEDTTRKYPVPTTS 480  
QY 481 TGYOPAYTSTTVLIQTRVPKQAVPATDTDMQTSLSLDEVMKTKIIGCFVAVTLLA 540  
DB 481 TGYOPAYTSTTVLIQTRVPKQAVPATDTDMQTSLSLDEVMKTKIIGCFVAVTLLA 540  
QY 541 AAMLIYFKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVVLP 600  
DB 541 AAMLIYFKLRKHQRSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEAVVLP 600  
QY 601 IHDHINTVTKPAGAHWTNSLGNLSHPVTVTISPPYIIQHTKDKVQETQI 653  
DB 601 IHDHINTVTKPAGAHWTNSLGNLSHPVTVTISPPYIIQHTKDKVQETQI 653

RESULT 34

US-09-997-573-229

Sequence 229, Application US/09997573

Publication No US20030049682A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

;; APPLICANT: Gerber, Hanspeter  
;; APPLICANT: Gerritsen, Mary E.  
;; APPLICANT: Goddard, Audrey  
;; APPLICANT: Godowski, Paul J.  
;; APPLICANT: Grimaldi, J. Christopher  
;; APPLICANT: Gurney, Austin L.  
;; APPLICANT: Kljavin, Ivar J.  
;; APPLICANT: Napier, Mary A.  
;; APPLICANT: Pan, James  
;; APPLICANT: Paoni, Nicholas F.  
;; APPLICANT: Roy, Margaret Ann  
;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Tamas, Daniel  
;; APPLICANT: Watanabe, Colin K.  
;; APPLICANT: Williams, P. Mickey  
;; APPLICANT: Wood, William I.  
;; APPLICANT: Zhang, Zemin  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; TITLE OF INVENTION: Acids Encoding the Same  
;; FILE REFERENCE: P2730PIC45  
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 ; PRIOR APPLICATION NUMBER: 60/092182  
 ; PRIOR FILING DATE: 1998-07-09

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DB	61	CTRGSLSEVPQIPSNTRYLNLMENNIQMIQADTFRLHLHLVLQGLRNSIRQIEVGAFN	120
QY	121	GLASLNTLELFDNNMLTVIPSGAFYLSKRLRELNRNPIESIPSYAFNRVPSLMRLDGE	180
DB	121	GLASLNTLELFDNNMLTVIPSGAFYLSKRLRELNRNPIESIPSYAFNRVPSLMRLDGE	180
QY	181	LKKLEYISEGAFEGFLFNLKYLNLGWCNIKOMPNTPLVGLLEELMSGNHFPETRQGSFHG	240
DB	181	LKKLEYISEGAFEGFLFNLKYLNLGWCNIKOMPNTPLVGLLEELMSGNHFPETRQGSFHG	240
QY	241	LSSLLKLLWVNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRYLVELHLHN	300
DB	241	LSSLLKLLWVNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRYLVELHLHN	300
QY	301	PWNCDDILWLAWLREYIPTNSTCCGRCHAPMGRGYLVEVDQASFOCSAPFMDAPR	360
DB	301	PWNCDDILWLAWLREYIPTNSTCCGRCHAPMGRGYLVEVDQASFOCSAPFMDAPR	360

2y 361 DLNISEGMAELKCRTPPMSSVKLLPNEGTVLSHASPRLISVLNDGTINFHVLSDTG 420  
361 DLNISEGMAELKCRTPPMSSVKLLPNEGTVLSHASPRLISVLNDGTINFHVLSDTG 420  
2y 421 VYTCWTVNAGSNASAYLVNSTAELNATSNYSFPFTTVTVETTSISPDITRKYKVPPTTS 480  
421 VYTCWTVNAGSNASAYLVNSTAELNATSNYSFPFTTVTVETTSISPDITRKYKVPPTTS 480  
2y 481 TGYOPAYTTSITVLIOITRVPKQAVPATDTTDDQQTSLDVEWKTTKIIGCFVAVTLLA 540  
481 TGYOPAYTTSITVLIOITRVPKQAVPATDTTDDQQTSLDVEWKTTKIIGCFVAVTLLA 540  
2y 541 AAMLIVFYKLRKHQRQSTVTAATVHIIQVDEIPAAATSAATAAPSGVSGGAVVLP 600  
541 AAMLIVFYKLRKHQRQSTVTAATVHIIQVDEIPAAATSAATAAPSGVSGGAVVLP 600  
2y 601 IHDHINYNTYKPAHGAHWNTENSLGSLHPTVTTISEPYIIQTHTKKQVQSTQI 653  
601 IHDHINYNTYKPAHGAHWNTENSLGSLHPTVTTISEPYIIQTHTKKQVQSTQI 653

## RESULT 35

US-09-991-172-229

Sequence 229, Application US/09991172

Publication No. US20030050457A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
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APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2730P1C50  
CURRENT APPLICATION NUMBER: US/09/991,172  
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PRIORITY FILING DATE: 1997-06-16  
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; PRIOR FILING DATE: 1998-06-17
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; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: 60/089907
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; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07

; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLMQVTVHHHTWNAILLPFVYLTAQVWLICAAIAAASAGPQNCPSVCSNQFSKV 60
Db 1 MKLLMQVTVHHHTWNAILLPFVYLTAQVWLICAAIAAASAGPQNCPSVCSNQFSKV 60

QY 61 CTRRGLSEVPQIPSNTRYLNLMENNIOMQADTFRLHLEVLQLGNSIRQIEVAFN 120
Db 61 CTRRGLSEVPQIPSNTRYLNLMENNIOMQADTFRLHLEVLQLGNSIRQIEVAFN 120

QY 121 GLASLNTLELFDNMLTVIPSCAFEYLSKRLRELNRNPIESIPSYAFNRVPSLMRLDGE 180
Db 121 GLASLNTLELFDNMLTVIPSCAFEYLSKRLRELNRNPIESIPSYAFNRVPSLMRLDGE 180

QY 181 LKLEYISEGAFEGFLPNLYNLKCMNKKMPNLTPLVGLBELEMSGNHPRPGSPFHG 240
Db 181 LKLEYISEGAFEGFLPNLYNLKCMNKKMPNLTPLVGLBELEMSGNHPRPGSPFHG 240

QY 241 LSSLKLLWVNSQVSLIERNAFDGLASIVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300
Db 241 LSSLKLLWVNSQVSLIERNAFDGLASIVELNLAHNNLSLPHDLFTPLRYLVELHLHN 300

QY 301 PWNCDILNLAWMLREYIPNTNSTCCGRCHAPMGRGYLVEVDQASFQCSAPFMDAPR 360
Db 301 PWNCDILNLAWMLREYIPNTNSTCCGRCHAPMGRGYLVEVDQASFQCSAPFMDAPR 360

QY 361 DINISEGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRPRISVLDGTLPNSHVLLSDTG 420
Db 361 DINISEGRMAELKCRTPPMSSVKWLLPNGTVLSHSHRPRISVLDGTLPNSHVLLSDTG 420

QY 421 VYTCMVTNVAGNSNASAYLVNSTAELNNTSYSPFTTVTETTESPEDTRKYPVPTTS 480
Db 421 VYTCMVTNVAGNSNASAYLVNSTAELNNTSYSPFTTVTETTESPEDTRKYPVPTTS 480

QY 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDTTKKQVSLDEVMKTKLIIGCFVAVTLLA 540
Db 481 TGYQPAYTSTTVLIQTRVPKQVAVPATDTTKKQVSLDEVMKTKLIIGCFVAVTLLA 540

QY 541 AAMLIVFYKLAKRKHQRSTVTAARTVEIIQVDEDI PAATSAATAAPSGVSGEAVVLP 600
Db 541 AAMLIVFYKLAKRKHQRSTVTAARTVEIIQVDEDI PAATSAATAAPSGVSGEAVVLP 600

QY 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTITISEBPIIQTHTKDKVQETOI 653
Db 601 IHDHINYNTYKPAHGAHWNTENSLGNSLHPTVTITISEBPIIQTHTKDKVQETOI 653

RESULT 36
US-09-990-736-229
; Sequence 229, Application US/09990726
; Publication No. US20030054359A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.

APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas P.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Watanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.  
 APPLICANT: Zhang, Zemin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 TITLE OF INVENTION: Acids Encoding the Same  
 FILE REFERENCE: P2730P1C16  
 CURRENT APPLICATION NUMBER: US/09/990,726  
 CURRENT FILING DATE: 2001-11-14  
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 ; PRIOR APPLICATION NUMBER: 60/091982  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/092182  
 ; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
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Qy 1 MLLWQVTHHHTWNAILLFVYLTQVWILCAIAAASAGPQNCPSVCSNPFQKV 60  
 Db 1 MLLWQVTHHHTWNAILLFVYLTQVWILCAIAAASAGPQNCPSVCSNPFQKV 60  
 Qy 61 CTRAGLSEVPQGPSNRYLNLMNENIQTQDTRHLEHLEVLQGRNSIRQIEVGFN 120  
 Db 61 CTRAGLSEVPQGPSNRYLNLMNENIQTQDTRHLEHLEVLQGRNSIRQIEVGFN 120  
 Qy 121 GLASLNTLELFDWNLTVIPSGAFEYLSKRELVLRNPNIESIPSYAFNVPVSLMRDLGE 180  
 Db 121 GLASLNTLELFDWNLTVIPSGAFEYLSKRELVLRNPNIESIPSYAFNVPVSLMRDLGE 180  
 Qy 181 LKLEYISEGAFEGFLNFKYLNLMNENIQTQDTRHLEHLEVLQGRNSIRQIEVGFN 240  
 Db 181 LKLEYISEGAFEGFLNFKYLNLMNENIQTQDTRHLEHLEVLQGRNSIRQIEVGFN 240  
 Qy 241 LSSLUKLWVNSQVSLIERNAFQGLASVLELNAHNLSSLPHDLFTPLRYLVELHLHN 300  
 Db 241 LSSLUKLWVNSQVSLIERNAFQGLASVLELNAHNLSSLPHDLFTPLRYLVELHLHN 300  
 Qy 301 PNWCDCDILWMLRYEIPNTNCCORCHAPWMEGRYLVVDQASFOCSAPFIMDAEP 360  
 Db 301 PNWCDCDILWMLRYEIPNTNCCORCHAPWMEGRYLVVDQASFOCSAPFIMDAEP 360  
 Qy 361 DLNISEGRMAELKCRTPPMSQVXWLLPNGTVLSHARHPRIISVINDGTNLFVSHLLSDTG 420  
 Db 361 DLNISEGRMAELKCRTPPMSQVXWLLPNGTVLSHARHPRIISVINDGTNLFVSHLLSDTG 420  
 Qy 421 VYTCWNTVAGNSNAYLVNVAETLNTSNYSFTTIVTVEITEISPEDTRKYPVETS 480  
 Db 421 VYTCWNTVAGNSNAYLVNVAETLNTSNYSFTTIVTVEITEISPEDTRKYPVETS 480

Qy 481 TGYQPAYTSTTVLIQTTRVPKQVAVPATDITDKMOTSLDEVMKTKIILGCFVAVTLLA 540  
 Db 481 TGYQPAYTSTTVLIQTTRVPKQVAVPATDITDKMOTSLDEVMKTKIILGCFVAVTLLA 540  
 Qy 541 AAMLIVFYKLKRKHQORSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEGAVLPT 600  
 Db 541 AAMLIVFYKLKRKHQORSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSGEGAVLPT 600  
 Qy 601 IHDHINYNTYKAGGAHWTEISLNSLHPTVTIISPPYIIQTHTKDKVQETOI 653  
 Db 601 IHDHINYNTYKAGGAHWTEISLNSLHPTVTIISPPYIIQTHTKDKVQETOI 653

RESULT 37

US-09-997-559-229  
 ; Sequence 229, Application US/09997559  
 ; Publication No. US20030054403A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas P.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: P2730P1C40  
 ; CURRENT APPLICATION NUMBER: US/09/997,559  
 ; CURRENT FILING DATE: 2001-11-15  
 ; PRIOR APPLICATION NUMBER: 60/049787  
 ; PRIOR FILING DATE: 1997-06-16  
 ; PRIOR APPLICATION NUMBER: 60/062250  
 ; PRIOR FILING DATE: 1997-10-17  
 ; PRIOR APPLICATION NUMBER: 60/065186  
 ; PRIOR FILING DATE: 1997-11-12  
 ; PRIOR APPLICATION NUMBER: 60/065311  
 ; PRIOR FILING DATE: 1997-11-13  
 ; PRIOR APPLICATION NUMBER: 60/066770  
 ; PRIOR FILING DATE: 1997-11-24  
 ; PRIOR APPLICATION NUMBER: 60/075945  
 ; PRIOR FILING DATE: 1998-02-25  
 ; PRIOR APPLICATION NUMBER: 60/078910  
 ; PRIOR FILING DATE: 1998-03-20  
 ; PRIOR APPLICATION NUMBER: 60/083322  
 ; PRIOR FILING DATE: 1998-04-28  
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 ; PRIOR APPLICATION NUMBER: 60/087759

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3 PRIOR FILING DATE: 1998-06-03  
4 PRIOR APPLICATION NUMBER: 60/088021  
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15 PRIOR FILING DATE: 1998-06-04  
16 PRIOR APPLICATION NUMBER: 60/088033  
17 PRIOR FILING DATE: 1998-06-04  
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20 PRIOR APPLICATION NUMBER: 60/088167  
21 PRIOR FILING DATE: 1998-06-05  
22 PRIOR APPLICATION NUMBER: 60/088202  
23 PRIOR FILING DATE: 1998-06-05  
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36 PRIOR APPLICATION NUMBER: 60/088810  
37 PRIOR FILING DATE: 1998-06-10  
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39 PRIOR FILING DATE: 1998-06-10  
40 PRIOR APPLICATION NUMBER: 60/088826  
41 PRIOR FILING DATE: 1998-06-10  
42 PRIOR APPLICATION NUMBER: 60/088858  
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44 PRIOR APPLICATION NUMBER: 60/088861  
45 PRIOR FILING DATE: 1998-06-11  
46 PRIOR APPLICATION NUMBER: 60/088876  
47 PRIOR FILING DATE: 1998-06-11  
48 PRIOR APPLICATION NUMBER: 60/089105  
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50 PRIOR APPLICATION NUMBER: 60/089440  
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55 PRIOR FILING DATE: 1998-06-16  
56 PRIOR APPLICATION NUMBER: 60/089532  
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69 PRIOR FILING DATE: 1998-06-18  
70 PRIOR APPLICATION NUMBER: 60/089907  
71 PRIOR FILING DATE: 1998-06-18  
72 PRIOR APPLICATION NUMBER: 60/089908  
73 PRIOR FILING DATE: 1998-06-18

74 PRIOR APPLICATION NUMBER: 60/089947  
75 PRIOR FILING DATE: 1998-06-19  
76 PRIOR APPLICATION NUMBER: 60/089948  
77 PRIOR FILING DATE: 1998-06-19  
78 PRIOR APPLICATION NUMBER: 60/089952  
79 PRIOR FILING DATE: 1998-06-19  
80 PRIOR APPLICATION NUMBER: 60/090246  
81 PRIOR FILING DATE: 1998-06-22  
82 PRIOR APPLICATION NUMBER: 60/090252  
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138 PRIOR APPLICATION NUMBER: 60/091778  
139 PRIOR FILING DATE: 1998-07-07  
140 PRIOR APPLICATION NUMBER: 60/091982  
141 PRIOR FILING DATE: 1998-07-07  
142 PRIOR APPLICATION NUMBER: 60/092182  
143 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MLLWQVTVHHHTNAILLPFVYLTQVWILCAIAAASAGPQNCPSVCSNPFQSKV 60  
 Db 1 MLLWQVTVHHHTNAILLPFVYLTQVWILCAIAAASAGPQNCPSVCSNPFQSKV 60

Qy 61 CTARGSEVPQGISNRYNLNMENNIOIADTFRHLHLEVLQGRNSIRQIEVGFN 120  
 Db 61 CTARGSEVPQGISNRYNLNMENNIOIADTFRHLHLEVLQGRNSIRQIEVGFN 120

Qy 121 GLASLNTLEPDKWLTIVISGAPEYLSKRELWLRNPIESIPSAFNRVPSLMDLGE 180  
 Db 121 GLASLNTLEPDKWLTIVISGAPEYLSKRELWLRNPIESIPSAFNRVPSLMDLGE 180

Qy 181 LKXLEYISEGAFGLFNKYLNLGMCNIXDMPNLTLVLGLEELMSGHFFPIRGSFPG 240  
 Db 181 LKXLEYISEGAFGLFNKYLNLGMCNIXDMPNLTLVLGLEELMSGHFFPIRGSFPG 240

Qy 241 LSSIKKLWVWNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRYLVELHLHN 300  
 Db 241 LSSIKKLWVWNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRYLVELHLHN 300

Qy 301 PNCDCDILWAWLREYIPTNSTCCGRCHAPMHEGRYLVEVDQASFCPSAFFIWDAPR 360  
 Db 301 PNCDCDILWAWLREYIPTNSTCCGRCHAPMHEGRYLVEVDQASFCPSAFFIWDAPR 360

Qy 361 DLNISGRMAELKRTPPMSVKWLLPNGTIVLSHARRPRIIVLNDGILNFSVLLSDTG 420  
 Db 361 DLNISGRMAELKRTPPMSVKWLLPNGTIVLSHARRPRIIVLNDGILNFSVLLSDTG 420

Qy 421 VYTCWTVNAGNSAGAYLNVAELNTSNYSFFTVTVETTEISPEDTRYKVPVPTS 480  
 Db 421 VYTCWTVNAGNSAGAYLNVAELNTSNYSFFTVTVETTEISPEDTRYKVPVPTS 480

Qy 481 TGYQPAYTSTTVLIQTRVPKQVAPVADTDKQOTSIDEVWTKKIIIGCFVAVTLLA 540  
 Db 481 TGYQPAYTSTTVLIQTRVPKQVAPVADTDKQOTSIDEVWTKKIIIGCFVAVTLLA 540

Qy 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVEDIPAAASAATAAPSGVSGEAVLPT 600  
 Db 541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVEDIPAAASAATAAPSGVSGEAVLPT 600

Qy 601 IHDHINYNTKPAHGAHWIENSIGNSLHPTVTIISPIYIIQTHTKDKVQETQI 653  
 Db 601 IHDHINYNTKPAHGAHWIENSIGNSLHPTVTIISPIYIIQTHTKDKVQETQI 653

RESULT 38

US-09-997-601-229  
 ; Sequence 229, Application US/09997601  
 ; Publication No. US2003005404A1

GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerritsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin J.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas P.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Watanabe, Colin K.

; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: E2730P1C36  
 ; CURRENT APPLICATION NUMBER: US/09/997,601  
 ; CURRENT FILING DATE: 2001-11-15  
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 ? PRIOR APPLICATION NUMBER: 60/092182  
 ? PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
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QY	1	MKLLMQVTVHHHTWNAILLPFVYLTAQVWILCAIAAASAGPQNCPSVCSCSHQFSKVW	60
DB	1	MKLLMQVTVHHHTWNAILLPFVYLTAQVWILCAIAAASAGPQNCPSVCSCSHQFSKVW	60
QY	61	CTRGSLSEVPOQIPSENTRYLNLMENNIQMIQADTFRHLHLEVLQLGNSIROIEVGAFN	120
DB	61	CTRGSLSEVPOQIPSENTRYLNLMENNIQMIQADTFRHLHLEVLQLGNSIROIEVGAFN	120
QY	121	GLASLMTLELFDNWLTVIPSGAFYLSKLRILWLNPNPIESIPSYAFNRVPSLMLRLOIGE	180
DB	121	GLASLMTLELFDNWLTVIPSGAFYLSKLRILWLNPNPIESIPSYAFNRVPSLMLRLOIGE	180
QY	181	LKKLEYISEGAPEGLFNKLYNLGNCNKMKNLTPVLGLBELEMSGNHPEIRPGSFHG	240
DB	181	LKKLEYISEGAPEGLFNKLYNLGNCNKMKNLTPVLGLBELEMSGNHPEIRPGSFHG	240
QY	241	LSSIAKLVWMSQVSLIERNAPDGLASLVELLNAHNLSSLPDLPFLRYLVELLHLEN	300
DB	241	LSSIAKLVWMSQVSLIERNAPDGLASLVELLNAHNLSSLPDLPFLRYLVELLHLEN	300
QY	301	PWNCDDILMLAWMLREYIPTNSTCCGRCHAPMEMRGYLVVEVDQASFQCSAPFINDAPR	360
DB	301	PWNCDDILMLAWMLREYIPTNSTCCGRCHAPMEMRGYLVVEVDQASFQCSAPFINDAPR	360
QY	361	DLNISEGMAELKCKTTPMSSVKMLLPNGTVLSASRHPRISSVLNDGTLPFSHYLLSDTG	420
DB	361	DLNISEGMAELKCKTTPMSSVKMLLPNGTVLSASRHPRISSVLNDGTLPFSHYLLSDTG	420
QY	421	VYTCMVTVNAGNSASAYLVNSTAELNATSNYSFFTTVTVEITETISPDTRTKYKVPFTTS	480
DB	421	VYTCMVTVNAGNSASAYLVNSTAELNATSNYSFFTTVTVEITETISPDTRTKYKVPFTTS	480
QY	481	TCYQPAYTSTTVLIQTRVPKQAVAPATDTDKMQTSLDEWMTTKLIIIGCFVAVTLLA	540
DB	481	TCYQPAYTSTTVLIQTRVPKQAVAPATDTDKMQTSLDEWMTTKLIIIGCFVAVTLLA	540
QY	541	AAMLJVEYKLRKHQRSTVTAARTVEIIQVDEIDIPAAATSAATAAPSGVSGEAVLPT	600

Db 541 AAMLIVFYKLRKHQQRSTVTAARTVEIIQVDEDIPATSAATAAPSGVSGEAVLVPT 600  
QY 601 IHDHINYNTKPAHGAHWIENSLGNSLHPTVTITSEPYIIQHTXDKVQETQI 653  
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? Sequence 229, Application US/09990443  
? Publication No. US20030054987A1  
? GENERAL INFORMATION:  
? APPLICANT: Ashkenazi, Avi J.  
? APPLICANT: Baker, Kevin P.  
? APPLICANT: Botstein, David  
? APPLICANT: Desnoyers, Luc  
? APPLICANT: Eaton, Dan L.  
? APPLICANT: Ferrara, Napoleone  
? APPLICANT: Fong, Sherman  
? APPLICANT: Gerber, Hanspeter  
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? APPLICANT: Kijavini, Ivar J.  
? APPLICANT: Napier, Mary A.  
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? APPLICANT: Roy, Margaret Ann  
? APPLICANT: Stewart, Timothy A.  
? APPLICANT: Tumas, Daniel  
? APPLICANT: Watanabe, Colin K.  
? APPLICANT: Williams, P. Mickey  
? APPLICANT: Wood, William I.  
? APPLICANT: Zhang, Jemin  
? TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
? FILE REFERENCE: P2730P1C12  
? CURRENT APPLICATION NUMBER: US/09/990,443  
? PRIOR FILING DATE: 2001-11-14  
? PRIOR APPLICATION NUMBER: 60/049787  
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Prior Application Number: 60/091478  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091544  
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Prior Application Number: 60/091626  
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Prior Application Number: 60/091633  
Prior Filing Date: 1998-07-02  
Prior Application Number: 60/091978  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/091982  
Prior Filing Date: 1998-07-07  
Prior Application Number: 60/092182  
Prior Filing Date: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
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Db 121 GLASLNTLELFDNMLTVIPSGAFAYLSKRLRLRNPIESIPSYAFNRVPSLMLDLGE 180  
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Db 181 LKLEIYISEGAFEGFLNKLNLGNCNITKOMPNTPLVGLLEELSMGNHFFIIRPGSPHG 240  
QY 241 LSLAKLWYMSOVSLEIERNAPDGLASLVEINLAHNNLSLPHDLFTPLRYLVLELHLHN 300  
Db 241 LSLAKLWYMSOVSLEIERNAPDGLASLVEINLAHNNLSLPHDLFTPLRYLVLELHLHN 300  
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Db 301 PWCDCDILWLAWLREYIPTNSTCCGRCHAPMHRGRYLYVEVDQASFOCSAPFIMDAPR 360  
QY 361 DLNISEGRMAELKCTPPKSSVYKLLPNGTVLSHASHPRIISVINDGTLNFSHVLLSDTG 420  
Db 361 DLNISEGRMAELKCTPPKSSVYKLLPNGTVLSHASHPRIISVINDGTLNFSHVLLSDTG 420  
QY 421 VYTCMVTVNAGNSNAYLNVSTAEALNTSNYSFFTTVTVEITTEISPEDTTRKYPVPTTS 480  
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QY 481 TCGPAYTSTTVLIQTRVPKQAVAPATDITDKMOTSLDEVMTTKIILGCFVAVILLA 540  
Db 481 TCGPAYTSTTVLIQTRVPKQAVAPATDITDKMOTSLDEVMTTKIILGCFVAVILLA 540  
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Db 541 AAMLIVFYKLRKHQRSTVTAARTVEILQVDEIDIPAAATSAATAAPSGVSGEAVLPT 600  
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RESULT 40  
US-09-991-854-229  
Sequence 229, Application US/09991854  
Publication No. US20030059780A1  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730FIC24  
CURRENT APPLICATION NUMBER: US/09/991,854

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4 PRIOR APPLICATION NUMBER: 60/062250  
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7 PRIOR FILING DATE: 1997-11-12  
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13 PRIOR FILING DATE: 1998-02-25  
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;; PRIOR FILING DATE: 1998-07-07  
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;; PRIOR FILING DATE: 1998-07-07  
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;; PRIOR FILING DATE: 1998-07-09

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; Publication No. US20030059782A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
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; APPLICANT: Kljavin, Ivar J.  
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; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730P1C30  
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 / PRIOR APPLICATION NUMBER: 60/091626  
 / PRIOR FILING DATE: 1998-07-02  
 / PRIOR APPLICATION NUMBER: 60/091633  
 / PRIOR FILING DATE: 1998-07-02  
 / PRIOR APPLICATION NUMBER: 60/091978  
 / PRIOR FILING DATE: 1998-07-07  
 / PRIOR APPLICATION NUMBER: 60/091982  
 / PRIOR FILING DATE: 1998-07-07  
 / PRIOR APPLICATION NUMBER: 60/092182  
 / PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 M K L L Q V T V H H T W N A I L L P F Y L T R A Q W I L C A A A A A S A G P Q N C P S V C S C S N O F S K V V 60  
 D b 1 M K L L Q V T V H H T W N A I L L P F Y L T R A Q W I L C A A A A A S A G P Q N C P S V C S C S N O F S K V V 60  
 Qy 61 C T R R G L S E V P Q G I P S N T R Y L N L M E N N I O M I Q A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120  
 D b 61 C T R R G L S E V P Q G I P S N T R Y L N L M E N N I O M I Q A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120  
 Qy 121 G L A S I A N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L A N N P I E S I P S V A F N R V P S L M R L D L G E 180  
 D b 121 G L A S I A N T L E L F D N W L T V I P S G A F E Y L S K L R E L W L A N N P I E S I P S V A F N R V P S L M R L D L G E 180

181 LKLEYISEGAFGLFKYLNLGKNCI KOMPNIPLVGLLEEMSGNHPEIRPGSFHG 240  
181 LKLEYISEGAFGLFKYLNLGKNCI KOMPNIPLVGLLEEMSGNHPEIRPGSFHG 240  
241 LSSIKKLWMSQVSLIERNAPDGLASIVELNLAHNNLSLPHDLTPPLRYLVELHLHN 300  
241 LSSIKKLWMSQVSLIERNAPDGLASIVELNLAHNNLSLPHDLTPPLRYLVELHLHN 300  
301 PWNCDILMLAWLREYIPNTNSCCGRCHAPMHMRGRYLVVDQASFOCSAFPIMDAPR 360  
301 PWNCDILMLAWLREYIPNTNSCCGRCHAPMHMRGRYLVVDQASFOCSAFPIMDAPR 360  
361 DINTSEGRMAELKRTPEPMSSVKLLPNGTVLVSASHRPRISVNDGTNLFSHVLLSDTG 420  
361 DINTSEGRMAELKRTPEPMSSVKLLPNGTVLVSASHRPRISVNDGTNLFSHVLLSDTG 420  
421 VYTCWNTVAGNSNAYLVNSTAELNNTSNVSPPTVTVTVEITISPEDTTRKPKVPTTS 480  
421 VYTCWNTVAGNSNAYLVNSTAELNNTSNVSPPTVTVTVEITISPEDTTRKPKVPTTS 480  
481 TGYOPAYTSTVLIQTRVPKQVAVPATDTTDMQTSLSDEVNMTTKIILGCFVAVTLIA 540  
481 TGYOPAYTSTVLIQTRVPKQVAVPATDTTDMQTSLSDEVNMTTKIILGCFVAVTLIA 540  
541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDSIDI PAATSAATAAPSGVSGGAVVLT 500  
541 AAMLIVFYKLRKHQRSTVTAARTVEIIQVDSIDI PAATSAATAAPSGVSGGAVVLT 500  
601 IHDHINTYKPAKGAHWNTENSGLNLSLHPTVTVTIISBPIIQTHTKQVQETQI 653  
601 IHDHINTYKPAKGAHWNTENSGLNLSLHPTVTVTIISBPIIQTHTKQVQETQI 653

## RESULT 42

IS-09-997-683-229

Sequence 229, Application US/09997683

Publication No. US20030059783A1

## GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnuyers, Luc  
APPLICANT: Baton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1G32  
CURRENT APPLICATION NUMBER: US/09/997,683  
CURRENT FILING DATE: 2001-11-15  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12

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 ; PRIOR FILING DATE: 1998-07-01

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 ; PRIOR FILING DATE: 1998-07-02  
 ; PRIOR APPLICATION NUMBER: 60/091544  
 ; PRIOR FILING DATE: 1998-07-01  
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 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/091982  
 ; PRIOR FILING DATE: 1998-07-07  
 ; PRIOR APPLICATION NUMBER: 60/092182  
 ; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 M K L L Q V T V H H T N N A I L P F V Y L T A Q W I L C A A T A A A S A G P Q N C P S V C S C S N O F S K V 60  
 Db 1 M K L L Q V T V H H T N N A I L P F V Y L T A Q W I L C A A T A A A S A G P Q N C P S V C S C S N O F S K V 60  
 Qy 61 C T R R G L S E V P Q G I P S N T R Y L N L M N N I Q I A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120  
 Db 61 C T R R G L S E V P Q G I P S N T R Y L N L M N N I Q I A D T F R H L H L E V L Q L G R N S I R Q I E V G A F N 120  
 Qy 121 G L A S L N T L E L F O N W L T V I P S G A F E Y L S K L R E L W L N N P I E S I P S Y A F A R V P S L M L D I G E 180  
 Db 121 G L A S L N T L E L F O N W L T V I P S G A F E Y L S K L R E L W L N N P I E S I P S Y A F A R V P S L M L D I G E 180  
 Qy 181 L K K L E Y I S G A P E G L F N L A Y L N L G M C N I K D M P N L P L V G L E B L E M S G N H F P E I R P G S F H G 240  
 Db 181 L K K L E Y I S G A P E G L F N L A Y L N L G M C N I K D M P N L P L V G L E B L E M S G N H F P E I R P G S F H G 240  
 Qy 241 L S S L K K L A W N S Q V S L I E R N A F D G L A S L V E L M A N N I S S L P H D L F T P L U R Y L V E L H L H N 300  
 Db 241 L S S L K K L A W N S Q V S L I E R N A F D G L A S L V E L M A N N I S S L P H D L F T P L U R Y L V E L H L H N 300  
 Qy 301 P W N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M H M G R Y L V E V D O A S P O C S A F F I M D A P R 360  
 Db 301 P W N C D C D I L W L A W L R E Y I P T N S T C C G R C H A P M H M G R Y L V E V D O A S P O C S A F F I M D A P R 360  
 Qy 361 D L M I S E G R M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P R I S V L N D G T I N P S H V L L S D T G 420  
 Db 361 D L M I S E G R M A E L K C R T P P M S S V K W L L P N G T V L S H A S R H P R I S V L N D G T I N P S H V L L S D T G 420  
 Qy 421 V Y T C M V T N V A G N S A S A Y L N V S T A E L N T S N Y S F F T V T V T T E I S P E D T T R K Y K P V P T S 480  
 Db 421 V Y T C M V T N V A G N S A S A Y L N V S T A E L N T S N Y S F F T V T V T T E I S P E D T T R K Y K P V P T S 480  
 Qy 481 T G Y Q P A Y T T S T V L I Q T T R V P K Q V A P A T D T D T K M Q T S L D E V M K T T K I I I G C F V A V T L L A 540  
 Db 481 T G Y Q P A Y T T S T V L I Q T T R V P K Q V A P A T D T D T K M Q T S L D E V M K T T K I I I G C F V A V T L L A 540  
 Qy 541 A A M L I V F Y K L R K H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600  
 Db 541 A A M L I V F Y K L R K H Q O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G V S G E G A V L P T 600  
 Qy 601 I H D H I N Y N T Y K P A G H A W T E N S I G N S L H P T V T T I S E P V I I Q T H T K D K V Q E T Q I 653  
 Db 601 I H D H I N Y N T Y K P A G H A W T E N S I G N S L H P T V T T I S E P V I I Q T H T K D K V Q E T Q I 653

RESULT 43  
 US-09-989-729A-229  
 ; Sequence 229, Application US/09989729A  
 ; Publication No. US20030059831A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.

APPLICANT: Solstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurney, Austin L.  
APPLICANT: Kljavit, Ivar J.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730P1C59  
CURRENT APPLICATION NUMBER: US/09/989,729A  
CURRENT FILING DATE: 2001-11-19  
PRIOR APPLICATION NUMBER: 60/049787  
PRIOR FILING DATE: 1997-06-16  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/065186  
PRIOR FILING DATE: 1997-11-12  
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PRIOR APPLICATION NUMBER: 60/090431  
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PRIOR APPLICATION NUMBER: 60/090435

Query Match 100.0%; Score 653; DB 11; Length 653;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MKLLQVTVHHHTWNAITLPEVYLTQWILCAIAAASAGPQNCPSVCSNPFVKV 60  
Db 1 MKLLQVTVHHHTWNAITLPEVYLTQWILCAIAAASAGPQNCPSVCSNPFVKV 60

Qy 61 CTRGLSEVPQGPSNTRYLNLMNNIQTADTFRHLHLEVQLGRNSIRQIEVGAFN 120  
Db 61 CTRGLSEVPQGPSNTRYLNLMNNIQTADTFRHLHLEVQLGRNSIRQIEVGAFN 120

Qy 121 GLASLNTLEFDNWLTVIPSGAFEYLSKRELWLRNPNIESIPSAFNVPSLMDLIGE 180  
Db 121 GLASLNTLEFDNWLTVIPSGAFEYLSKRELWLRNPNIESIPSAFNVPSLMDLIGE 180

Qy 181 LKLEYISEGAFGLFNKLYNLGMCNIKDMFNLTPLVGLBLEMSGNHFFPIRPGSPHG 240  
Db 181 LKLEYISEGAFGLFNKLYNLGMCNIKDMFNLTPLVGLBLEMSGNHFFPIRPGSPHG 240

Qy 241 LSSLKKLWVNSQVSLIERNAPGLASVELNLNLAHNLSSLFDLFTPLRYLVELHLHN 300  
Db 241 LSSLKKLWVNSQVSLIERNAPGLASVELNLNLAHNLSSLFDLFTPLRYLVELHLHN 300

Qy 301 PWNCDIILAWLWREYIPTNSTCGRCHAPMHRGRVLYVEDQASFOCSAPFIMDAPR 360  
Db 301 PWNCDIILAWLWREYIPTNSTCGRCHAPMHRGRVLYVEDQASFOCSAPFIMDAPR 360

Qy 361 DLNISGRMAELKCRTPPMSSVKWLLPNCITVLSHARRHPRISVLNDGTILNFSHLLSDTG 420  
Db 361 DLNISGRMAELKCRTPPMSSVKWLLPNCITVLSHARRHPRISVLNDGTILNFSHLLSDTG 420

Qy 421 VYTCMTNVAGNSNAYSAYLNVSTAEINTSNYSFFTTVTVTETIISPDTRKYKVPPTS 480  
Db 421 VYTCMTNVAGNSNAYSAYLNVSTAEINTSNYSFFTTVTVTETIISPDTRKYKVPPTS 480

Qy 481 TGYOPAYTTSTTVLIQITRVPKQVAVPAITDDTKKQTSLSDEVNKTIIIGCFVAVTLLA 540  
Db 481 TGYOPAYTTSTTVLIQITRVPKQVAVPAITDDTKKQTSLSDEVNKTIIIGCFVAVTLLA 540

Qy 541 AAMLIVFYKLKRKHQRSTVTAARTVEIIOVDIEDIPAATSAATAAPSGVSGEGAVLFT 600  
Db 541 AAMLIVFYKLKRKHQRSTVTAARTVEIIOVDIEDIPAATSAATAAPSGVSGEGAVLFT 600

Qy 601 IHDHINNTYKPAHGAHWTENSLGNSLHPTVTITISEPYIIQTHTKDKVQETQI 653  
Db 601 IHDHINNTYKPAHGAHWTENSLGNSLHPTVTITISEPYIIQTHTKDKVQETQI 653

RESULT 44  
US-09-957-349-229  
; Sequence 229, Application US/09997349  
; Publication No. US20030059832A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: P2730P1C37  
; CURRENT APPLICATION NUMBER: US/09/997,349  
; PRIOR FILING DATE: 2001-11-15  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/065186  
; PRIOR FILING DATE: 1997-11-12  
; PRIOR APPLICATION NUMBER: 60/065311  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: 60/066770  
; PRIOR FILING DATE: 1997-11-24  
; PRIOR APPLICATION NUMBER: 60/075945  
; PRIOR FILING DATE: 1998-02-25  
; PRIOR APPLICATION NUMBER: 60/078910

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2	PRIOR FILING DATE: 1998-06-17	
3	PRIOR APPLICATION NUMBER: 60/089600	
4	PRIOR FILING DATE: 1998-06-17	
5	PRIOR APPLICATION NUMBER: 60/089653	
6	PRIOR FILING DATE: 1998-06-17	
7	PRIOR APPLICATION NUMBER: 60/089801	
8	PRIOR FILING DATE: 1998-06-18	
9	PRIOR APPLICATION NUMBER: 60/089907	
10	PRIOR FILING DATE: 1998-06-18	
11	PRIOR APPLICATION NUMBER: 60/089908	
12	PRIOR FILING DATE: 1998-06-18	
13	PRIOR APPLICATION NUMBER: 60/089947	
14	PRIOR FILING DATE: 1998-06-19	
15	PRIOR APPLICATION NUMBER: 60/089948	
16	PRIOR FILING DATE: 1998-06-19	
17	PRIOR APPLICATION NUMBER: 60/089952	
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19	PRIOR APPLICATION NUMBER: 60/090246	
20	PRIOR FILING DATE: 1998-06-22	
21	PRIOR APPLICATION NUMBER: 60/090252	
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23	PRIOR APPLICATION NUMBER: 60/090254	
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25	PRIOR APPLICATION NUMBER: 60/090349	
26	PRIOR FILING DATE: 1998-06-23	
27	PRIOR APPLICATION NUMBER: 60/090355	
28	PRIOR FILING DATE: 1998-06-23	
29	PRIOR APPLICATION NUMBER: 60/090429	
30	PRIOR FILING DATE: 1998-06-24	
31	PRIOR APPLICATION NUMBER: 60/090431	
32	PRIOR FILING DATE: 1998-06-24	
33	PRIOR APPLICATION NUMBER: 60/090435	
34	PRIOR FILING DATE: 1998-06-24	
35	PRIOR APPLICATION NUMBER: 60/090444	
36	PRIOR FILING DATE: 1998-06-24	
37	PRIOR APPLICATION NUMBER: 60/090445	
38	PRIOR FILING DATE: 1998-06-24	
39	PRIOR APPLICATION NUMBER: 60/090472	
40	PRIOR FILING DATE: 1998-06-24	
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64	PRIOR FILING DATE: 1998-07-01	
65	PRIOR APPLICATION NUMBER: 60/091519	
66	PRIOR FILING DATE: 1998-07-02	
67	PRIOR APPLICATION NUMBER: 60/091626	

; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLQVTHHHWNAILLFFVLTQWILCAATAAASAGQPCVCSNPFQSKV 60
DB 1 MKLLQVTHHHWNAILLFFVLTQWILCAATAAASAGQPCVCSNPFQSKV 60
QY 61 CTRRGLESEVPGQIPSTRYINLXENNIOIADTFRHLHLEVLQIGRNSRQIEVGAFN 120
DB 61 CTRRGLESEVPGQIPSTRYINLXENNIOIADTFRHLHLEVLQIGRNSRQIEVGAFN 120
QY 121 GLASLNTLELFDNWLTVIPSGAFYLSKURELWLRNPNIESIPSAFNRVPSLKRDLGE 180
DB 121 GLASLNTLELFDNWLTVIPSGAFYLSKURELWLRNPNIESIPSAFNRVPSLKRDLGE 180
QY 181 LKXLEYISGAPGLENLKYNLGMCNIXDMPNLTPLVGLBLEMSGNHFFPIRPGSFHG 240
DB 181 LKXLEYISGAPGLENLKYNLGMCNIXDMPNLTPLVGLBLEMSGNHFFPIRPGSFHG 240
QY 241 LSSLKKLWVNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRYLVELLHFN 300
DB 241 LSSLKKLWVNSQVSLIERNAPDGLASLVELNLAHNLSLPHDLFTPLRYLVELLHFN 300
QY 301 PWCDCDILLAWNLREYIPTNSTCCGRCHAPXMRGRVLVEVDQASFQCSAPFTMDAPR 360
DB 301 PWCDCDILLAWNLREYIPTNSTCCGRCHAPXMRGRVLVEVDQASFQCSAPFTMDAPR 360
QY 361 DLNISGRMAELKCRTPPMSSVKWLLPNCVTLSHSHRPRISVLNDGTINFSHVLLSDTG 420
DB 361 DLNISGRMAELKCRTPPMSSVKWLLPNCVTLSHSHRPRISVLNDGTINFSHVLLSDTG 420
QY 421 VYTCMTNVAGNSNAGLAYLNVTAEINTSNYSFFTTVTVEITEISPEDTKRYKVPVPTS 480
DB 421 VYTCMTNVAGNSNAGLAYLNVTAEINTSNYSFFTTVTVEITEISPEDTKRYKVPVPTS 480
QY 481 TGQPAYTSTTVLIQTTVPKQVAVPATDTTKMQTSLDEVMKTKLIIIGCFVAVTLLA 540
DB 481 TGQPAYTSTTVLIQTTVPKQVAVPATDTTKMQTSLDEVMKTKLIIIGCFVAVTLLA 540
QY 541 AAMLIYFYKLRKHQRSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSEGAVALPT 600
DB 541 AAMLIYFYKLRKHQRSTVTAARTVEIIQVDEDIPAATSAATAAPSGVSEGAVALPT 600
QY 601 IHDHINYTKPAHGAHWNTENSIGNSLHETVTIISPEYIIOTHKDKVQETQI 653
DB 601 IHDHINYTKPAHGAHWNTENSIGNSLHETVTIISPEYIIOTHKDKVQETQI 653

RESULT 45
US-09-997-440-229
; Sequence 229, Application US/09997440
; Publication No. US20030059833A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Forgy, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tamas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730PIC31
; CURRENT APPLICATION NUMBER: US/09/997,440
; CURRENT FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
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 / PRIOR FILING DATE: 1998-07-07  
 / PRIOR APPLICATION NUMBER: 60/091982  
 / PRIOR FILING DATE: 1998-07-07  
 / PRIOR APPLICATION NUMBER: 60/092182  
 / PRIOR FILING DATE: 1998-07-09  
 / PRIOR APPLICATION NUMBER: 60/092182  
 / PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
 Best Local Similarity 100.0%; Pred.No. 0;  
 Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MKLLMQVTVHHTWNAILLPFVYLTQAQWILCAAIAAASAGPQNCFSVCSNQPSKYV	60
Db	1	MKLLMQVTVHHTWNAILLPFVYLTQAQWILCAAIAAASAGPQNCFSVCSNQPSKYV	60
Qy	61	CTTRGLSEVPQGISNTRYLNLMENNIQMIQADTFRLHLEVLQLGNSIROIEVGAFN	120
Db	61	CTTRGLSEVPQGISNTRYLNLMENNIQMIQADTFRLHLEVLQLGNSIROIEVGAFN	120
Qy	121	GLASLNTLELFDNMLTWIPSGAFYLSKRLRLNRPISIPSYAFNRVPSLMRLDLGE	180
Db	121	GLASLNTLELFDNMLTWIPSGAFYLSKRLRLNRPISIPSYAFNRVPSLMRLDLGE	180
Qy	181	LKKLEYIISGAFEGFLNLYNLGCMNICKMPNLTPLVGLLEEMSGNHPPEIRPGSFHG	240
Db	181	LKKLEYIISGAFEGFLNLYNLGCMNICKMPNLTPLVGLLEEMSGNHPPEIRPGSFHG	240
Qy	241	LSSLKKLWVMSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN	300
Db	241	LSSLKKLWVMSQVSLIERNAPDGLASLVELNLAHNNLSLPHDLFTPLRYLVELHLHN	300
Qy	301	FWNCDCDILMLAWHLREYIPTNSTCCGRCHAPMHRGRLVVEVDQASFOCSAPFMDAPR	360
Db	301	FWNCDCDILMLAWHLREYIPTNSTCCGRCHAPMHRGRLVVEVDQASFOCSAPFMDAPR	360
Qy	361	DINTISEGMAELKCRTPPMSSVXWLLPNGTVLHSHSRPRISVLNDCITLNFHVLLSDTG	420
Db	361	DINTISEGMAELKCRTPPMSSVXWLLPNGTVLHSHSRPRISVLNDCITLNFHVLLSDTG	420



Db 361 DLNISEGRMAELKCRTPMPSSVKMLLPNGTVLASHRHPRIISVLNDGTLNFSHVLLSTG 420  
Qy 421 VYTCWNTVAGNSNASAYLNVSTAEINTSNYSFFTTVTVEITEISPEDITTKYKVPVPTTS 480  
Db 421 VYTCWNTVAGNSNASAYLNVSTAEINTSNYSFFTTVTVEITEISPEDITTKYKVPVPTTS 480  
Qy 481 TGQPAYTTSTTVLIQTTTRPVQKQVAPADTDTKKQTSLSDEVMKTKKIIIGCFVAVTLLA 540  
Db 481 TGQPAYTTSTTVLIQTTTRPVQKQVAPADTDTKKQTSLSDEVMKTKKIIIGCFVAVTLLA 540  
Qy 541 AAMLIYFYKLRKHKQORSTVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEGAVVLPT 600  
Db 541 AAMLIYFYKLRKHKQORSVTAARTVEIIQVDEDIIPAATSAATAAPSGVSGEGAVVLPT 600  
Qy 601 IHDHINYNTKPAHGAHWTENSIGNSLHPTVTTITSEPIIIQHTKDKVQETQI 653  
Db 601 IHDHINYNTKPAHGAHWTENSIGNSLHPTVTTITSEPIIIQHTKDKVQETQI 653

RESULT 46  
US-09-990-440-229  
; Sequence 229, Application US/09990440  
; Publication No. US20030069407A1  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnovers, Luc  
; APPLICANT: Saton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2730P1C21  
; CURRENT APPLICATION NUMBER: US/09/990,440  
; PRIOR FILING DATE: 2001-11-14  
; PRIOR APPLICATION NUMBER: 60/049787  
; PRIOR FILING DATE: 1997-06-16  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/065186  
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; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07

Query Match 100.0%; Score 653; DB 11; Length 653;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 653; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKLLMQVTVHHHTWNAILLPFVYLTAAQWILCAIAAASAGPQNCPSVCSCNQFSKV 60
Db 1 MKLLMQVTVHHHTWNAILLPFVYLTAAQWILCAIAAASAGPQNCPSVCSCNQFSKV 60

QY 61 CTRGRLSEVPQIPSNTRYLNLMMNNIOMIQADTFRHHLHLEVLOLGRNSIROEVGAFN 120
Db 61 CTRGRLSEVPQIPSNTRYLNLMMNNIOMIQADTFRHHLHLEVLOLGRNSIROEVGAFN 120

QY 121 GLASLNTLELFDNWLTVIPSGAFYLSKRLRELNLNNPIESIPSYAFNRVPSLMRLDGE 180
Db 121 GLASLNTLELFDNWLTVIPSGAFYLSKRLRELNLNNPIESIPSYAFNRVPSLMRLDGE 180

QY 181 LKLEYISEGAFEGFLNLKYLMLGMCNIKMPNLTPLVGLLEELMSGNHPPFPIRPGSFHG 240
Db 181 LKLEYISEGAFEGFLNLKYLMLGMCNIKMPNLTPLVGLLEELMSGNHPPFPIRPGSFHG 240

QY 241 LSSLKKLWUMNSOVSLIRNAPDGLASLVEINLAHNLSLPHDLFTPLRYLVLHLLHN 300
Db 241 LSSLKKLWUMNSOVSLIRNAPDGLASLVEINLAHNLSLPHDLFTPLRYLVLHLLHN 300

QY 301 PWNCCDILWLAWLREYIPTNSTCCGRCHAPMHRGRLVVEVDQASQCSAPFIMDAPR 360
Db 301 PWNCCDILWLAWLREYIPTNSTCCGRCHAPMHRGRLVVEVDQASQCSAPFIMDAPR 360

QY 361 DLNISEGRMAELKCTPPMSSVVKWLLPNGTIVLSASRHPRI SVLNDGTINFSHVLLSDTG 420
Db 361 DLNISEGRMAELKCTPPMSSVVKWLLPNGTIVLSASRHPRI SVLNDGTINFSHVLLSDTG 420

QY 421 VYTCWTVNAGNSASAYLVNSTAEIANTSNYSFPTTVTVEITEISPEDTTKYKVPVPTS 480
Db 421 VYTCWTVNAGNSASAYLVNSTAEIANTSNYSFPTTVTVEITEISPEDTTKYKVPVPTS 480

QY 481 TGYQPAYTSTTVLIQTRVPKQAVPATDITDKVQTSLSDEVMTTKIIIGCFVAVTLLA 540
Db 481 TGYQPAYTSTTVLIQTRVPKQAVPATDITDKVQTSLSDEVMTTKIIIGCFVAVTLLA 540

QY 541 AAMLIVFKLRKHQRSTVTAARTVEIIQVDEDI PAATSAATAAPSGVSGEAVLPT 600
Db 541 AAMLIVFKLRKHQRSTVTAARTVEIIQVDEDI PAATSAATAAPSGVSGEAVLPT 600

QY 601 IHDHINYNTYKPAHGAHTWNSLGNLSLEPTVTITISEPYIIQTHTKDKVQETQI 653
Db 601 IHDHINYNTYKPAHGAHTWNSLGNLSLEPTVTITISEPYIIQTHTKDKVQETQI 653

RESULT 47
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; Sequence 229, Application US/09993469
; Publication No. US2003006823A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivan J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
```

APPLICANT: Paoni, Nicholas P.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: P2730PIC5  
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CURRENT FILING DATE: 2001-11-14  
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 PRIOR APPLICATION NUMBER: 60/091978  
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 PRIOR APPLICATION NUMBER: 60/091982  
 PRIOR FILING DATE: 1998-07-07  
 PRIOR APPLICATION NUMBER: 60/092182  
 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 653; DB 11; Length 653;  
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 QY 61 C T R R G L S E V P Q I P S N T R Y L N M E N N I Q I O A D T F R H L H L E V L Q L G N S I R Q I E V G A F N 120  
 D B 61 C T R R G L S E V P Q I P S N T R Y L N M E N N I Q I O A D T F R H L H L E V L Q L G N S I R Q I E V G A F N 120  
 QY 121 G L A S L N T L E L F D N M L T V I P S G A F E Y L S K L R E L W L R N N P I E S I P S Y A F N R V P S L M R L D I G E 180  
 D B 121 G L A S L N T L E L F D N M L T V I P S G A F E Y L S K L R E L W L R N N P I E S I P S Y A F N R V P S L M R L D I G E 180  
 QY 181 L K K L Y I S E G A F E G L F N L K Y L N G C N I K O M P N L T P L V G L E E L E S G N H P E I R P G S F H G 240  
 D B 181 L K K L Y I S E G A F E G L F N L K Y L N G C N I K O M P N L T P L V G L E E L E S G N H P E I R P G S F H G 240  
 QY 241 L S S L K L W M N S Q V S L I E R N A P D G L A S V E L N A H N L S S L P H D L F T P L R Y L V E L H L R H N 300  
 D B 241 L S S L K L W M N S Q V S L I E R N A P D G L A S V E L N A H N L S S L P H D L F T P L R Y L V E L H L R H N 300  
 QY 301 P W N C D I L W L A W L R E V I P T N S T C G R C H A P M E M R G R Y L V E V Q A S F Q C S A P I M D A P R 360  
 D B 301 P W N C D I L W L A W L R E V I P T N S T C G R C H A P M E M R G R Y L V E V Q A S F Q C S A P I M D A P R 360  
 QY 361 D L N I S E G R M A E L K C T P P M S S V K L L P N G T V L S H A S R H P R I S V L N D G T L N P S H V L L S D T G 420  
 D B 361 D L N I S E G R M A E L K C T P P M S S V K L L P N G T V L S H A S R H P R I S V L N D G T L N P S H V L L S D T G 420  
 QY 421 V Y T Q W T V N V A G N S N A S A Y L N V S T A B L N T S N S F P T T V T V T E I S P E D T T R K Y K P V P T T S 480  
 D B 421 V Y T Q W T V N V A G N S N A S A Y L N V S T A B L N T S N S F P T T V T V T E I S P E D T T R K Y K P V P T T S 480  
 QY 481 T G Y Q P A Y T T S T T V L I Q T T R V P Q V A P A T D T D K M Q T S L D E V M K T I I I G C F V A V T L L A 540

D B 481 T G Y Q P A Y T T S T T V L I Q T T R V P Q V A P A T D T D K M Q T S L D E V M K T I I I G C F V A V T L L A 540  
 QY 541 A A M L I V F Y K L R K S H O O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G S G E G A V L P T 600  
 D B 541 A A M L I V F Y K L R K S H O O R S T V T A A R T V E I I Q V D E D I P A A T S A A A T A A P S G S G E G A V L P T 600  
 QY 601 I H D H I N Y N T Y K P A H G A H W T E N S L G N S L H P T V T T T I S E P Y I I O T H K K Q V O E T Q I 653  
 D B 601 I H D H I N Y N T Y K P A H G A H W T E N S L G N S L H P T V T T T I S E P Y I I O T H K K Q V O E T Q I 653

RESULT 48

US-09-997-542-229  
 ; Sequence 229, Application US/09997542  
 ; Publication No. US20030068647A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi J.  
 ; APPLICANT: Baker, Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan L.  
 ; APPLICANT: Ferrara, Napoleone  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Kljavin, Ivar J.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Watanabe, Colin K.  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; APPLICANT: Zhang, Zemin  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: P2730PIC26  
 ; CURRENT APPLICATION NUMBER: US/09/997,542  
 ; CURRENT FILING DATE: 2001-11-15  
 ; PRIOR APPLICATION NUMBER: 60/049787  
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Query Match      100.0%; Score 653; DB 11; Length 653;
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Matches 653; Conservative 0; Mismatches 0; Indels 0
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 121 GLASLNTLELFDNWLTVIPSGAFYLSKRLWLNPNPIESIPSYAFNRVPSLMLRDLGE 180  
 121 GLASLNTLELFDNWLTVIPSGAFYLSKRLWLNPNPIESIPSYAFNRVPSLMLRDLGE 180  
 181 LKLEYISEGAFGLFNKLYNLGNKONKOMPNTPLVGLSELEMSGNHPPRPSGFH 240  
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 241 LSSLLKLVWVSQVSLIERNAPDGLASIVELNLAHNLSSLPDLPFLYLVELHLHN 300  
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 481 TGYOPAYTSTTVLIQTRVPKQAVPATDTTDOQTSLSDEWKNKTIILIGCFVAVTLLA 540  
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 541 AAMLIVFYKLRKQORSTVTAARTVEIIQVDEDI PAATSAATAAPSGVSGGAVVLP 600  
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RESULT 49

US-09-993-748-229  
 ; Sequence 229, Application US/09993748  
 ; Publication No. US20030069403A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
 APPLICANT: Baker, Kevin P.  
 APPLICANT: Botstein, David  
 APPLICANT: Destovers, Luc  
 APPLICANT: Eaton, Dan L.  
 APPLICANT: Fong, Sherman  
 APPLICANT: Gerber, Hanspeter  
 APPLICANT: Gerritsen, Mary E.  
 APPLICANT: Goddard, Audrey  
 APPLICANT: Godowski, Paul J.  
 APPLICANT: Grimaldi, J. Christopher  
 APPLICANT: Gurney, Austin L.  
 APPLICANT: Klijavin, Ivar J.  
 APPLICANT: Napier, Mary A.  
 APPLICANT: Pan, James  
 APPLICANT: Paoni, Nicholas F.  
 APPLICANT: Roy, Margaret Ann  
 APPLICANT: Stewart, Timothy A.  
 APPLICANT: Tumas, Daniel  
 APPLICANT: Katanabe, Colin K.  
 APPLICANT: Williams, P. Mickey  
 APPLICANT: Wood, William I.

APPLICANT: Zhang, Zenin  
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 FILE REFERENCE: P2730PLC23  
 CURRENT APPLICATION NUMBER: US/09/993,748  
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 ; PRIOR FILING DATE: 1998-07-09

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Db	61	CTRRLSEVPQGPISNTRYLNLMNENIOMIQADTFHLHLHLVQLGRNSIRQIEVGAEN	120
Qy	121	GLASLNTLELFDNWLTVIPSGAFYLSKRELMRNPNIESIYSYAFNRPVPSLMRLDLGE	180
Db	121	GLASLNTLELFDNWLTVIPSGAFYLSKRELMRNPNIESIYSYAFNRPVPSLMRLDLGE	180
Qy	181	LKLEYISEGAFGLFNLKYLNLGMCNIDKMPNLTPIVGLRELEMSGNHPPEIRPGSPHG	240
Db	181	LKLEYISEGAFGLFNLKYLNLGMCNIDKMPNLTPIVGLRELEMSGNHPPEIRPGSPHG	240
Qy	241	LSSLKLLWVWNSQVSLIERNAPDGLASLVELNLNAHNLSSLPHDLTPRLRYLVELLHHN	300
Db	241	LSSLKLLWVWNSQVSLIERNAPDGLASLVELNLNAHNLSSLPHDLTPRLRYLVELLHHN	300
Qy	301	PWNCDCDILWLAWLREYIPTNSTCCGRCHAPMMEGRYLVVEVDQASFOCSAFFINDAPR	360
Db	301	PWNCDCDILWLAWLREYIPTNSTCCGRCHAPMMEGRYLVVEVDQASFOCSAFFINDAPR	360
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Db	421	VYTCWVTNVAGNSNASAYLNVSTAEIANTSNYSFTTIVTVETTEISPEDTRTKYKVPPTTS	480
Qy	481	TGYQPAVTTSTTVLIQTRVPKQVAVPATDTTDMQTSLDEVNMTTKIILIGCFVAVTLLA	540
Db	481	TGYQPAVTTSTTVLIQTRVPKQVAVPATDTTDMQTSLDEVNMTTKIILIGCFVAVTLLA	540
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RESULT 50

S-09-990-439-229

Sequence 229 Application US/09990439

Publication No. US20030073090A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi J.  
APPLICANT: Baker, Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Fong, Sherman  
APPLICANT: Gerber, Hanspeter  
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APPLICANT: Napier, Mary A.  
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APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Watanabe, Colin K.  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same

CURRENT APPLICATION NUMBER: US/09/990,439

CURRENT FILING DATE: 2001-11-16

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